

# General Architecture

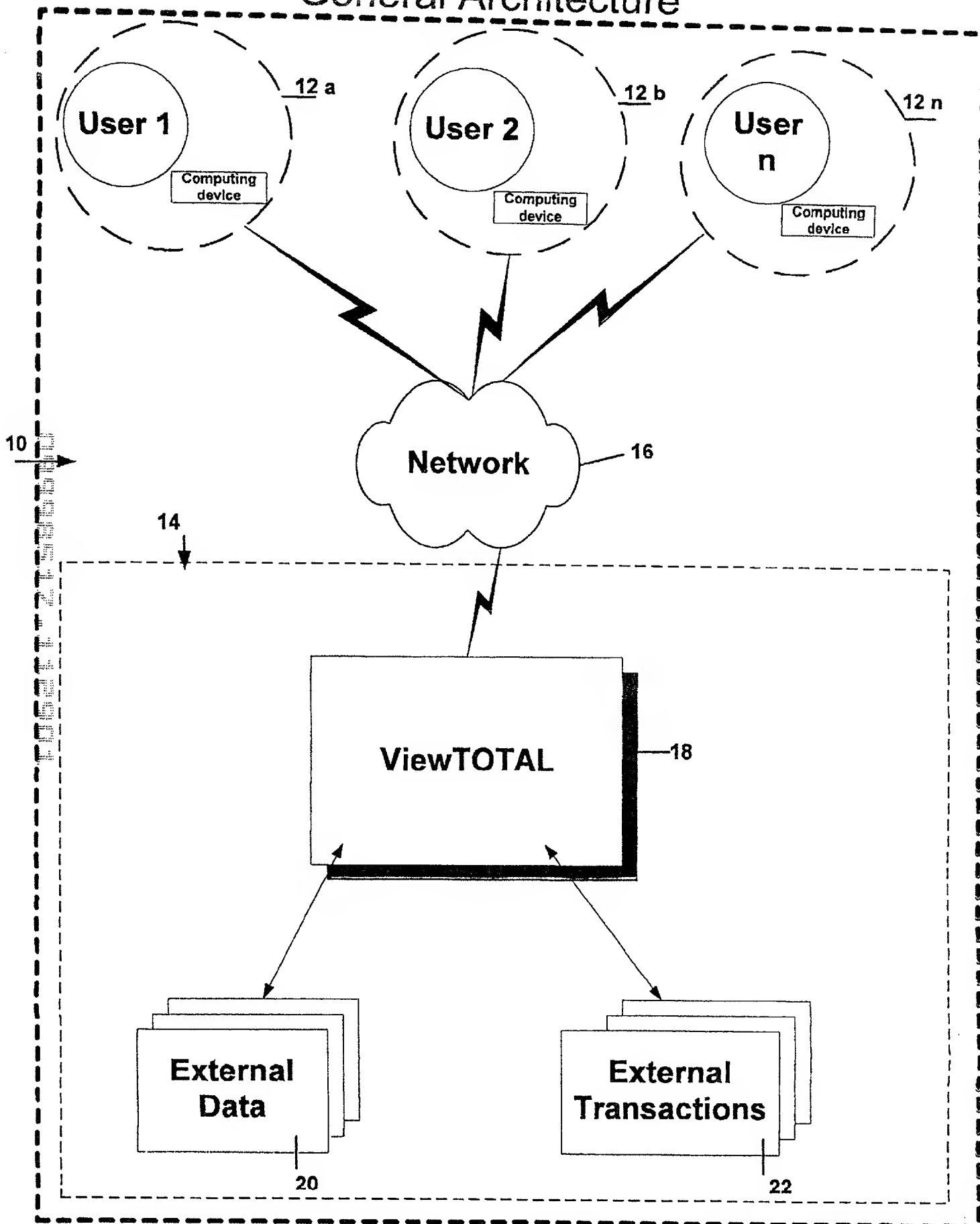


FIG. 1

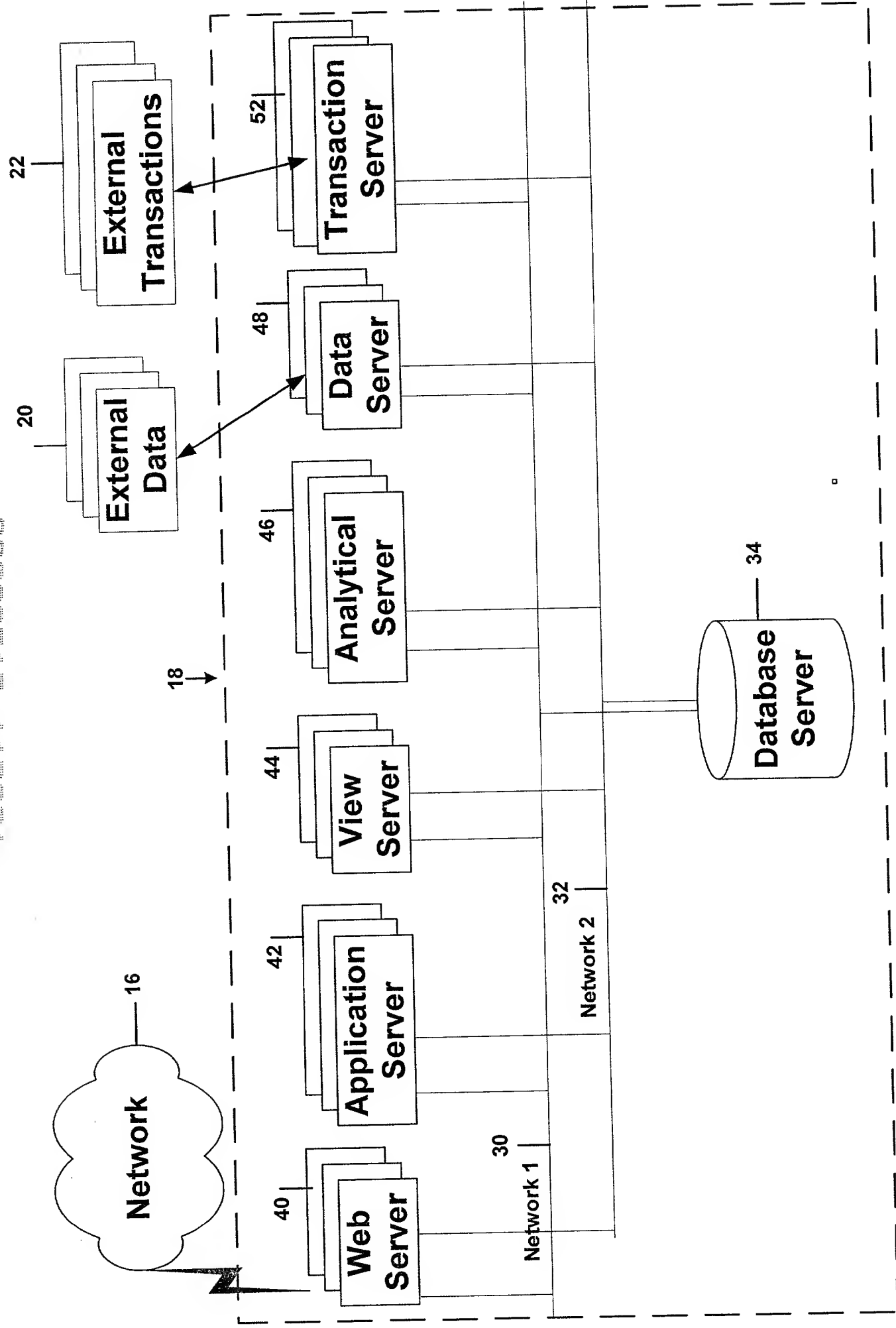




FIG. 2

[Logout](#)

Account Equities3  

62a Portfolio Analysis (By Instrument) Account Equities3 As Of 11/06/2000 Copyright 2000 Unilogic, Inc. 62m

[illegible]

63

72.

Lock  $\boxed{x} - 62x$

Fig. 3

Portfolio

Trades

Markets







Trade

Logout

Views: Indices -

Override

Portfolio Analysis Instrument Override Account Equities3 As Of 11/06/2000 Copyright 2000 Unilogic, Inc.

 Instrument	 Description	 Bid	 Ask	 Last	 LocalPrice Override
AAPL	Apple Computer	21.1875	21.3125	21.4375	25.0000 <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
IBM	IBM	0.0000	0.0000	100.3125	- ... <input checked="" type="checkbox"/>

77

76

78

74

Fig. 4

706277 458650

# Before Failover

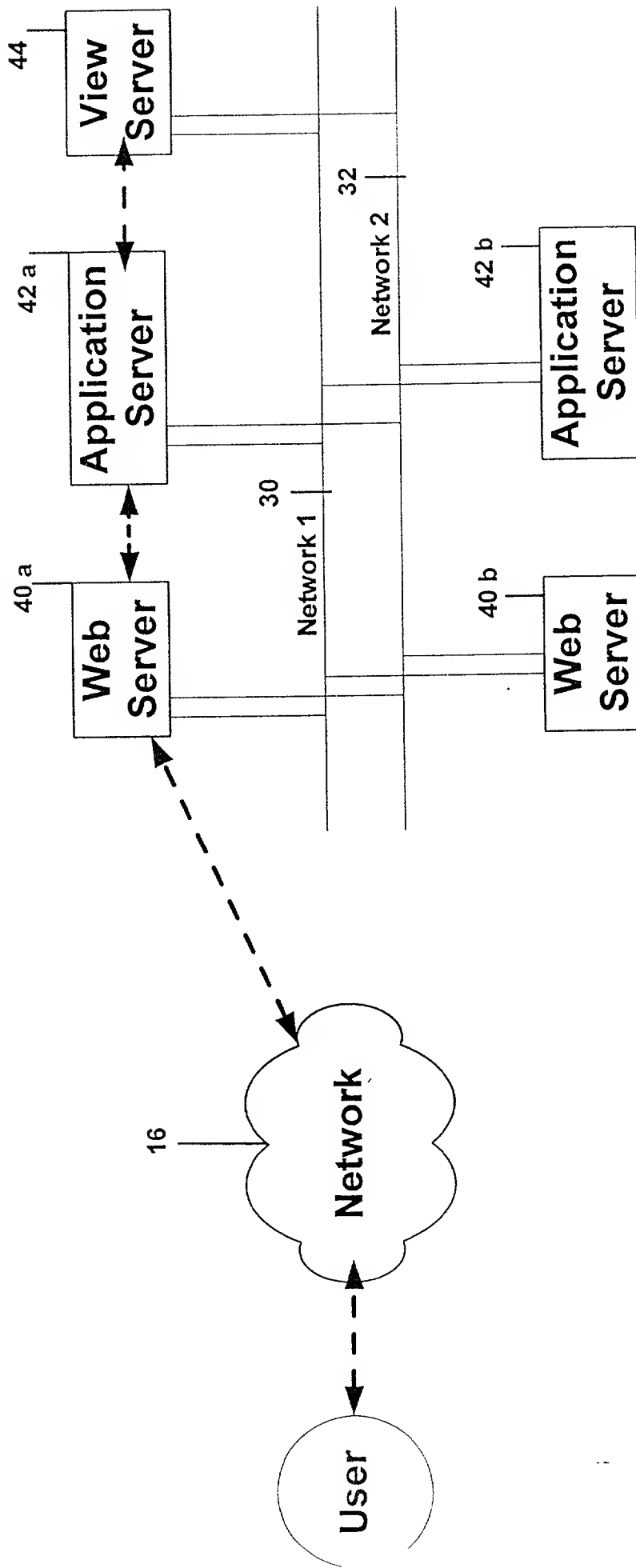


FIG. 5A

# After Failover

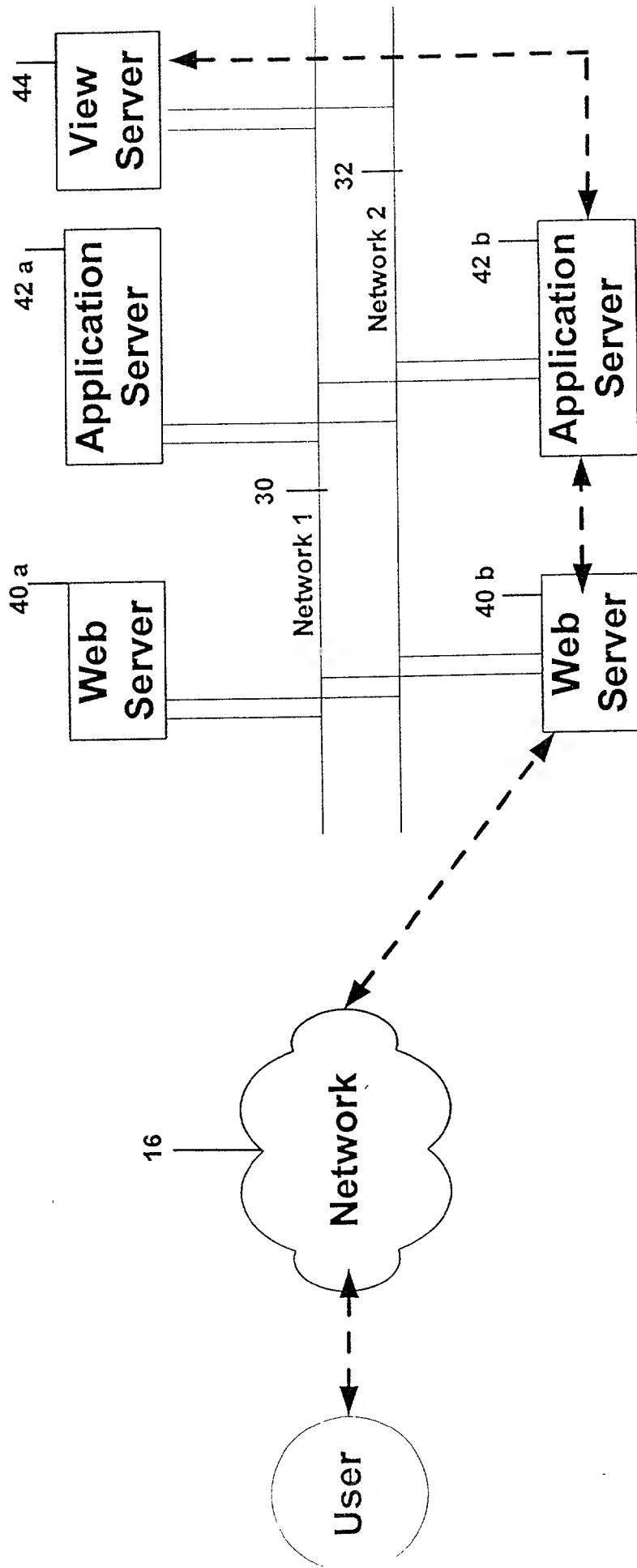


FIG. 5B

# User application view

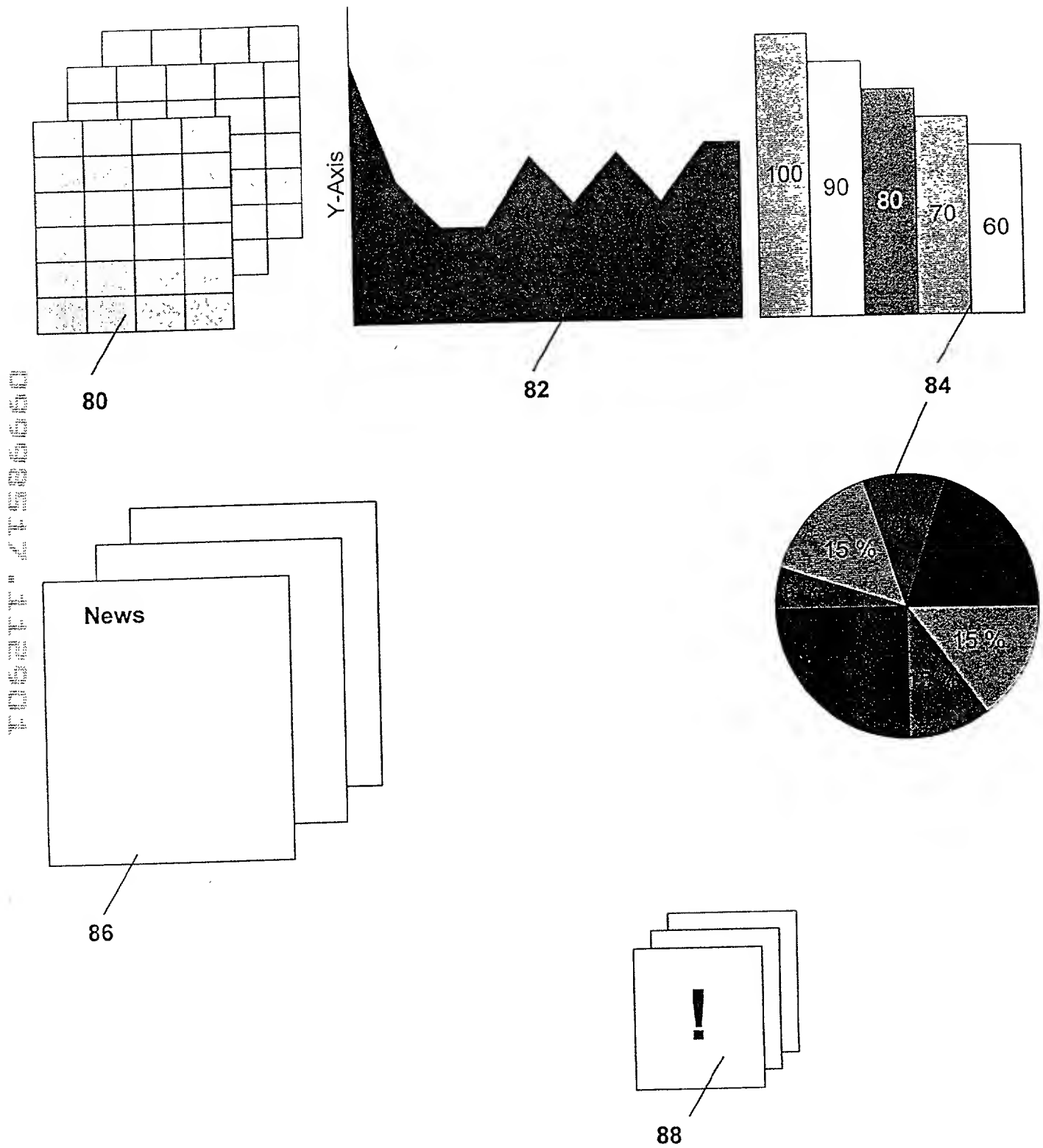


FIG. 6

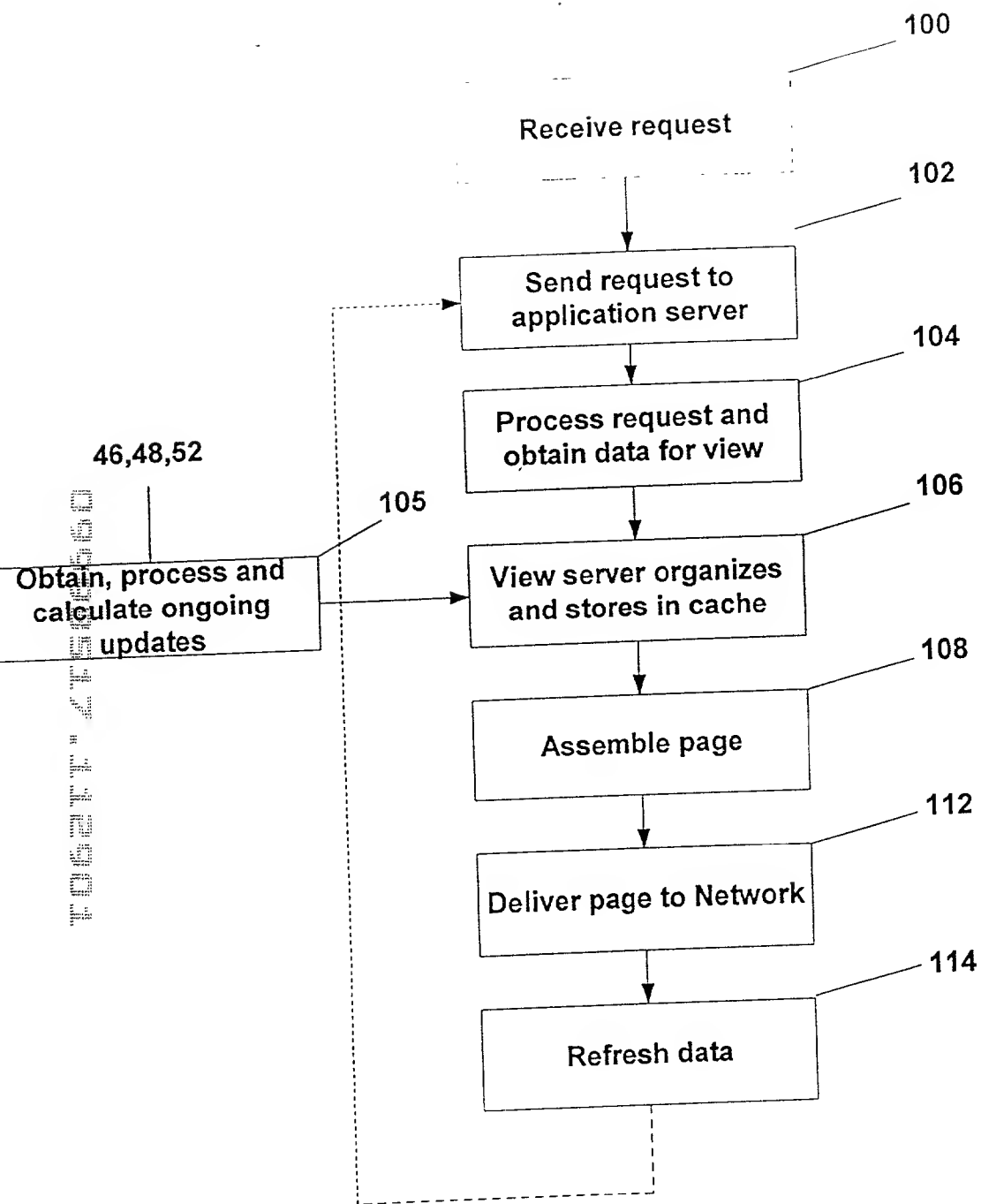
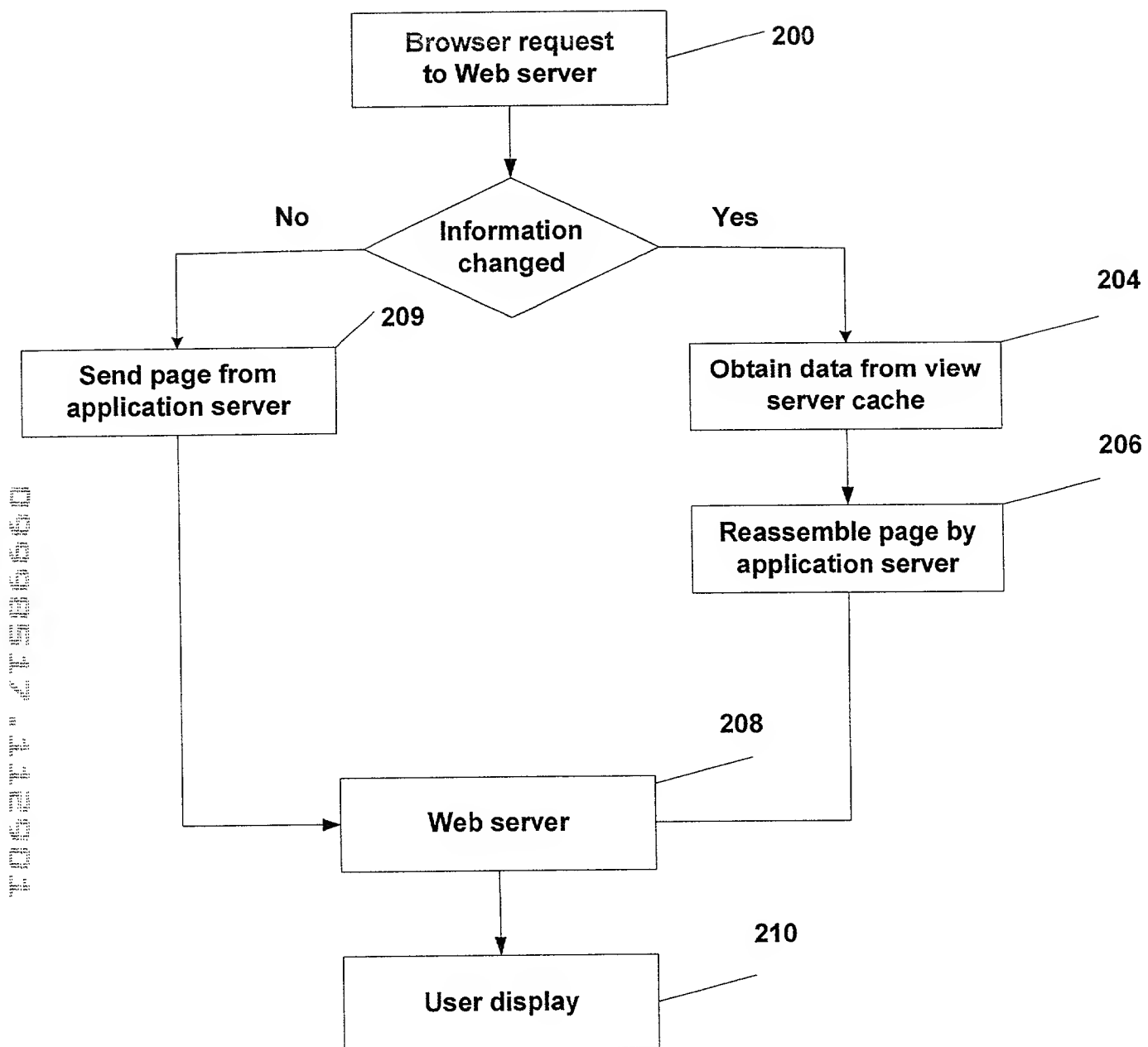


FIG. 7





**FIG. 8**

Trade Blotter

Account Trade Fund

Account Equities1 Go

Views: Blotter - DailyBlotter - Expiration

Trade Blotter Account Equities1 As Of 11/29/2000 Copyright 2000 Unilogic, Inc.

To modify or cancel a trade please click on arrow near TradeID

TradeID	SecurityName	Description	TradeType	TradeStatus	TradeDividend	TradeQuantity	TradePrice	SecurityType	Counterparty	TradeDate	Maturity
2641	IBM	IBM	Buy	Open	0.00	1000.00	99.000	CommonStock	BankOfAmerica	11/06/2000	
Total											

Fig. 8A

Trade Blotter Account Equities1 As Of 11/29/2000 Copyright 2000 Unilogic, Inc.

Account Trader Fund

Account Equities1 Go

Views: Blotter - DailyBlotter - Expiration


Trade Blotter Account Equities1 As Of 11/29/2000 Copyright 2000 Unilogic, Inc.

802 Modify Trade Cancel Trade 803

TradeID	SecurityName	Description	TradeType	TradeStatus	TradeDividend	TradeQuantity	TradePrice	SecurityType	Counterparty	TradeDate	Maturity
2641	IBM	IBM	Buy	Open	0.00	1000.00	99.000	CommonStock	BankOfAmerica	11/06/2000	
Total											

Fig. 8B

Portfolio

Trades 

Markets ...

Trace Entry

Logout

Are you sure to Modify trade 2641 ?

YES | NO

Fig. 9

a) Overall population		b) Males		c) Females	
Age group	Number	Age group	Number	Age group	Number
15-24	100	15-24	50	15-24	50
25-34	100	25-34	50	25-34	50
35-44	100	35-44	50	35-44	50
45-54	100	45-54	50	45-54	50
55-64	100	55-64	50	55-64	50
65-74	100	65-74	50	65-74	50
75-84	100	75-84	50	75-84	50
85-94	100	85-94	50	85-94	50
95-104	100	95-104	50	95-104	50
105-114	100	105-114	50	105-114	50
115-124	100	115-124	50	115-124	50
125-134	100	125-134	50	125-134	50
135-144	100	135-144	50	135-144	50
145-154	100	145-154	50	145-154	50
155-164	100	155-164	50	155-164	50
165-174	100	165-174	50	165-174	50
175-184	100	175-184	50	175-184	50
185-194	100	185-194	50	185-194	50
195-204	100	195-204	50	195-204	50
205-214	100	205-214	50	205-214	50
215-224	100	215-224	50	215-224	50
225-234	100	225-234	50	225-234	50
235-244	100	235-244	50	235-244	50
245-254	100	245-254	50	245-254	50
255-264	100	255-264	50	255-264	50
265-274	100	265-274	50	265-274	50
275-284	100	275-284	50	275-284	50
285-294	100	285-294	50	285-294	50
295-304	100	295-304	50	295-304	50
305-314	100	305-314	50	305-314	50
315-324	100	315-324	50	315-324	50
325-334	100	325-334	50	325-334	50
335-344	100	335-344	50	335-344	50
345-354	100	345-354	50	345-354	50
355-364	100	355-364	50	355-364	50
365-374	100	365-374	50	365-374	50
375-384	100	375-384	50	375-384	50
385-394	100	385-394	50	385-394	50
395-404	100	395-404	50	395-404	50
405-414	100	405-414	50	405-414	50
415-424	100	415-424	50	415-424	50
425-434	100	425-434	50	425-434	50
435-444	100	435-444	50	435-444	50
445-454	100	445-454	50	445-454	50
455-464	100	455-464	50	455-464	50
465-474	100	465-474	50	465-474	50
475-484	100	475-484	50	475-484	50
485-494	100	485-494	50	485-494	50
495-504	100	495-504	50	495-504	50
505-514	100	505-514	50	505-514	50
515-524	100	515-524	50	515-524	50
525-534	100	525-534	50	525-534	50
535-544	100	535-544	50	535-544	50
545-554	100	545-554	50	545-554	50
555-564	100	555-564	50	555-564	50
565-574	100	565-574	50	565-574	50
575-584	100	575-584	50	575-584	

Portfolio

Trades

Markets

Entry

Logout

Choose Security Type

Equity Trade Entry

☒ Buy ☐ Sell ☐ Sell Short ☐ Buy To Cover

Account	<input type="text" value="Equities1"/>
Amount	<input type="text" value="1000.00"/>
Equity	<input type="text" value="IBM"/>
Trade Price	<input type="text" value="99.0000"/>
Counterparty	<input type="text" value="BankOfAmerica"/>
Commission	<input type="text" value="50.00"/>
Trade Date	<input type="text" value="11/06/2000"/>
Hedge	<input type="checkbox"/>
Trade ID	<input type="text" value="2641"/>
	<input type="button" value="submit"/>

Fig. 10

2025-11-06 14:55:50

[Portfolio](#)
[Trade](#)
[Markets](#)
[Trade Entry](#)
[Logout](#)

Account Trader Fund

Account

Views: [Fundamentals](#) - [ProfitLoss](#) - [Risk](#) - [By Allocation](#) - [By AssetClass](#) - [By Counterparty](#) - [By Country](#) - [By Currency](#) - [By Industry](#) - [By Instrument](#) - [By LongShort](#) } 10c

Portfolio Analysis (By Country) Account Currencies1 As Of 11/26/2000 Copyright 2000 Unilogic, Inc.

Country	Spot	ShortPosValue	LongPosValue	PosValue	Unrealize P/L	RealizedP/L
					OTD	OTD
USA	1.0000	0.00	29,700.00	29,700.00	-1,300.00	0.00
Japan	112.0000	0.00	32,428.57	32,428.57	-4,911.43	0.00
Total		0.00	62,128.57	62,128.57	-6,211.43	0.00

Fig 11

[Portfolio](#)[Trades](#)[Markets](#)[Trade Entry](#)[Logout](#)

Detail Portfolio Analysis (By Country-Japan) Account Currencies1 As Of 11/26/2000 Copyright 2000  
Unilogic, Inc.

Instrument	Local	Currency	Maturity	Position	Pos Value	Unrealized P/L	Realized P/L
	Price					OTD	OTD
EWJ	11.75	USD		2,000.00	23,500.00	-4,750.00	0.00
Japanese Yen	112.00	Japanese_Yen		1,000,000.00	8,928.57	-161.43	0.00
Totals					32,428.57	-4,911.43	0.00

[Refresh Detail](#)[Back To Aggregate View](#)

FOUO 47595650

Fig. 12

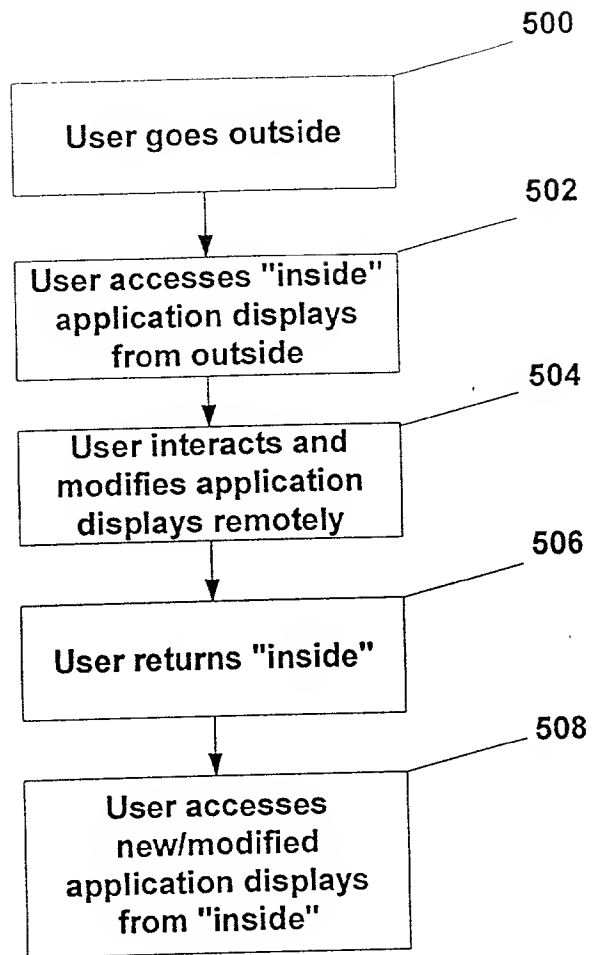


FIG. 13



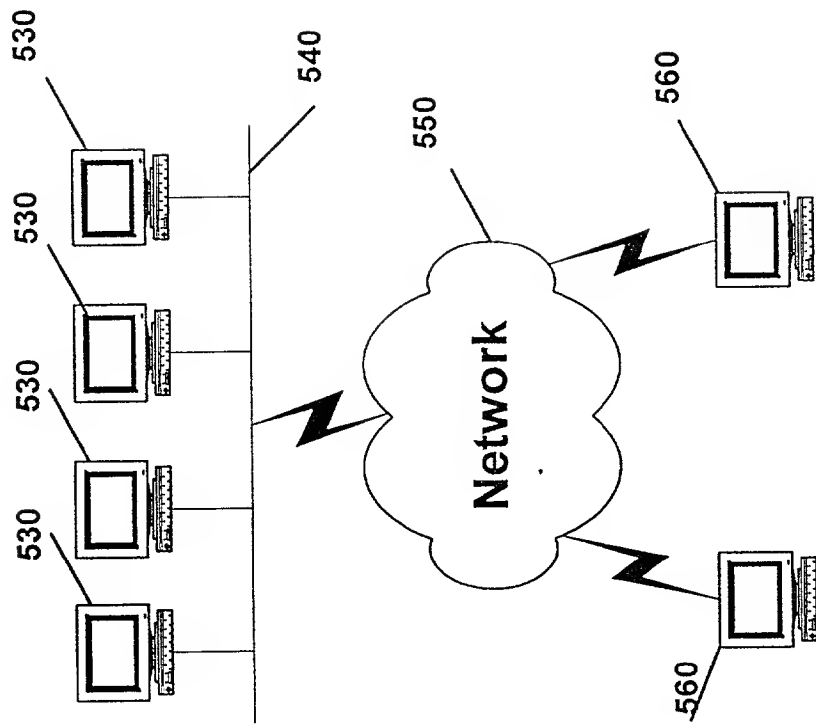


FIG. 14

- Portfolio
- Trades
- Curves
- Markets
- Trade Entry
- Configure
- Logout

Account Trader Fund

Account Currencies1 Go

Views: Fundamentals - ProfitLoss - Risk - By Allocation - By AssetClass - By Counterparty - By Country - By Currency - By Industry - By Instrument - By LongShort - By Greeks

600

Portfolio Analysis (By AssetClass) Account Currencies1 As Of 05/22/2001

AssetClass	ShortPosValue	LongPosValue	PosValue	%PosValue	UnrealizedP/L	RealizedP/L
					OTD	OTD
Currencies	-884,642.60	0.00	-884,642.60	25.53	-44,642.60	0.00
Options	0.00	55,000.00	55,000.00	1.59	29,000.00	0.00
Equities	-490,350.00	2,082,630.00	1,592,280.00	72.89	1,179,175.00	0.00
Total	-1,374,992.60	2,137,630.00	762,637.40	100.00	1,163,532.40	0.00

Fig. 15

- Portfolio
- Trades
- Curves
- Markets
- Trade Entry
- Configure
- Logout

Account Trader Fund

Account Currencies1

Views: Fundamentals - Profit/Loss - Risk - By Allocation - By Asset Class - By Counterparty - By Country - By Currency - By Industry - By Instrument - By Long/Short - By Greeks

600 602 Portfolio Analysis (By Asset Class) Account Currencies1 As Of 05/22/2001

Asset Class	Short Pos Value	Long Pos Value	Pos Value	% Pos Value	Unrealized P/L	Realized P/L
					OTD	OTD
Currencies	-884,779.58	0.00	-884,779.58	25.53	-44,779.58	0.00
Options	0.00	55,000.00	55,000.00	1.59	29,000.00	0.00
Equities	-490,350.00	2,082,630.00	1,592,280.00	72.88	1,179,175.00	0.00
Total	-1,375,129.58	2,137,630.00	762,500.42	100.00	1,163,395.42	0.00

Fig. 16

- Portfolio
- Positions
- Curves
- Markets
- Trade Entry
- Configure
- Logout

Account Trader Fund

Account Currencies1 ☒ Go

Views: Fundamentals - ProfitLoss - Risk - By Allocation - By AssetClass - By Counterparty - By Country - By Currency - By Industry - By Instrument - By LongShort

630 - By Greeks 632 640

Portfolio Analysis (By AssetClass) Account Currencies1 As Of 05/22/2001

AssetClass	ShortPosValue	LongPosValue	PosValue	%PosValue	UnrealizedP/L	RealizedP/L
					OTD	OTD
Currencies	-884,897.02	0.00	-884,897.02	25.53	-44,897.02	0.00
Options	0.00	55,000.00	55,000.00	1.59	29,000.00	0.00
Equities	-490,350.00	2,082,630.00	1,592,280.00	72.88	1,179,175.00	0.00
Total	-1,375,247.02	2,137,630.00	762,382.98	100.00	1,163,277.98	0.00

↑ Selected Column

FIG. 17

Portfolio

Strategies

Analytics

Markets

Trade Entry

Configure

Logout

Account Trader Fund

Account Currencies1 ☒ Go

Views: Fundamentals - ProfitLoss - Risk - By Allocation - By AssetClass - By Counterparty - By Country - By Currency - By Industry - By Instrument - By LongShort

600 Portfolio Analysis (By AssetClass) Account Currencies1 As Of 05/22/2001

By Greeks 620 650

AssetClass	LongPosValue	PosValue	ShortPosValue	%PosValue	UnrealizedP/L	RealizedP/L
					OTD	OTD
Currencies	0.00	-884,779.58	-884,779.58	25.53	-44,779.58	0.00
Options	55,000.00	55,000.00	0.00	1.59	29,000.00	0.00
Equities	2,082,630.00	1,592,280.00	-490,350.00	72.88	1,179,175.00	0.00
Total	2,137,630.00	762,500.42	-1,375,129.58	100.00	1,163,395.42	0.00

↑ selected column

Fig. 18

[Portfolio](#)
[Trades](#)
[Curves](#)
[Markets](#)
[Trade Entry](#)
[Configuration](#)

[Logout](#)

Account Trader Fund

Account Currencies1 ☒ Go

Views: Fundamentals - ProfitLoss - Risk - By Allocation - By AssetClass - By Counterparty - By Country - By Currency - By Industry - By Instrument - By LongShort - By Greeks

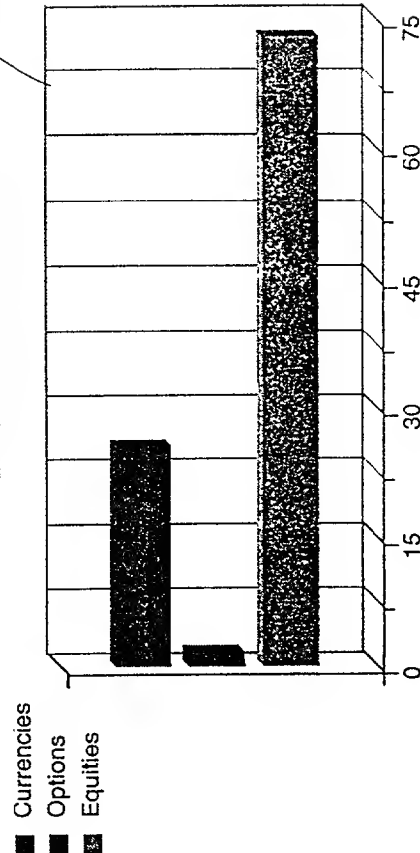
Portfolio Analysis (By AssetClass) Account Currencies1 As Of 05/22/2001

AssetClass	LongPosValue	PosValue	ShortPosValue	%PosValue	UnrealizedP/L	RealizedP/L
Currencies	0.00	-885,249.53	-885,249.53	25.54	-45,249.53	0.00
Options	55,000.00	55,000.00	0.00	1.59	29,000.00	0.00
Equities	2,082,630.00	1,592,280.00	-490,350.00	72.87	1,179,175.00	0.00
Total	2,137,630.00	762,030.47	-1,375,599.53	100.00	1,162,925.47	0.00

Fig. 19

658 Chart Type: Bar - HorizontalBar - Pie

%PosValue vs AssetClass



656

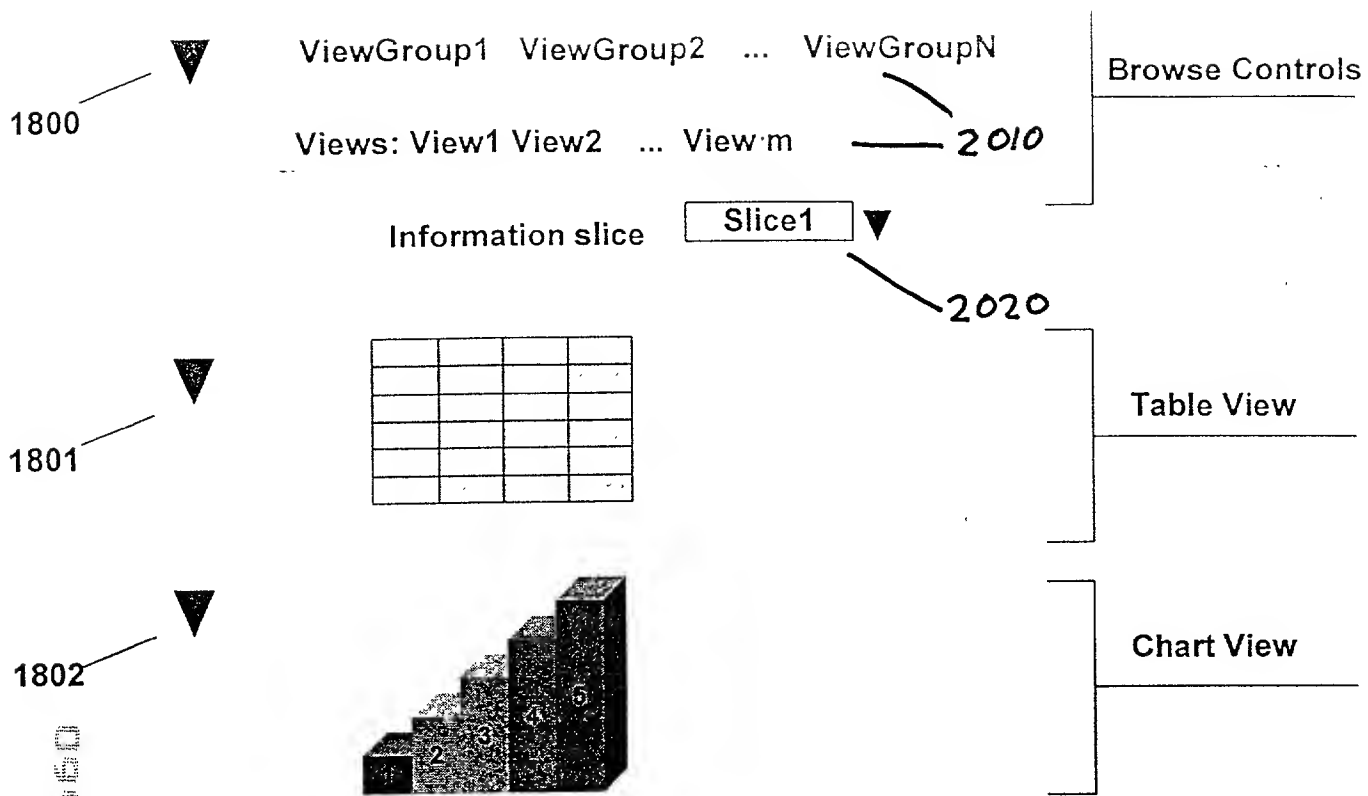


FIG. 20a

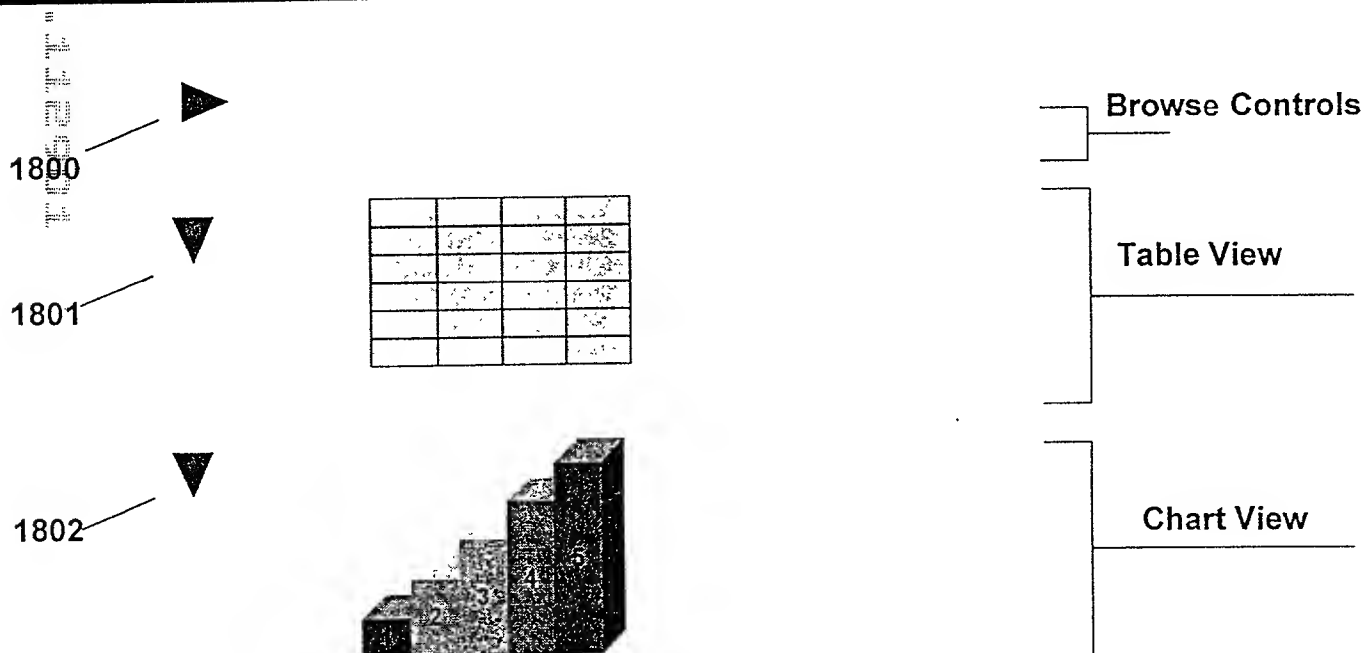


FIG. 20b

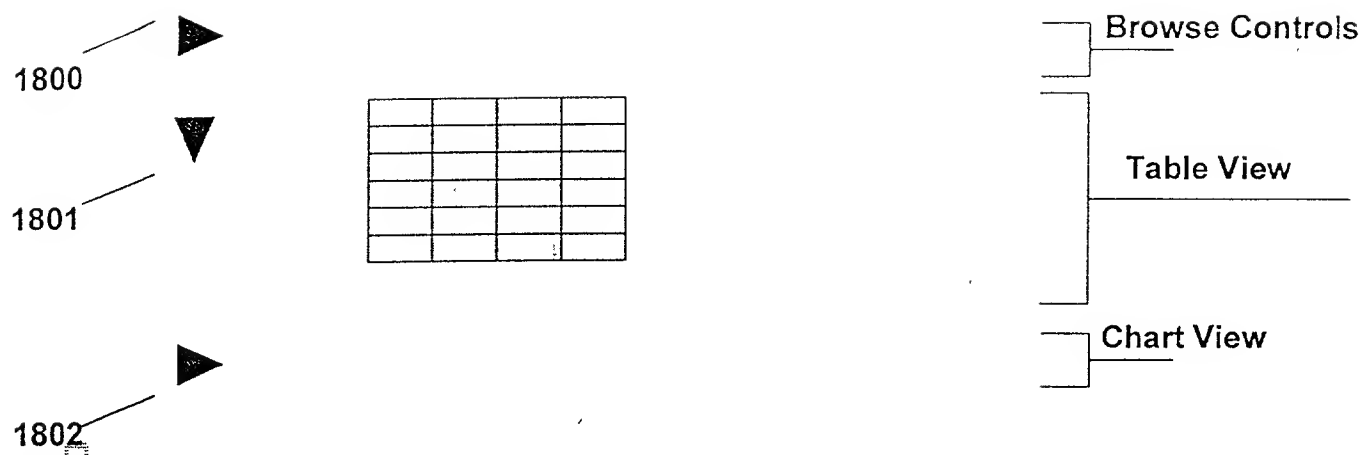


FIG. 20c

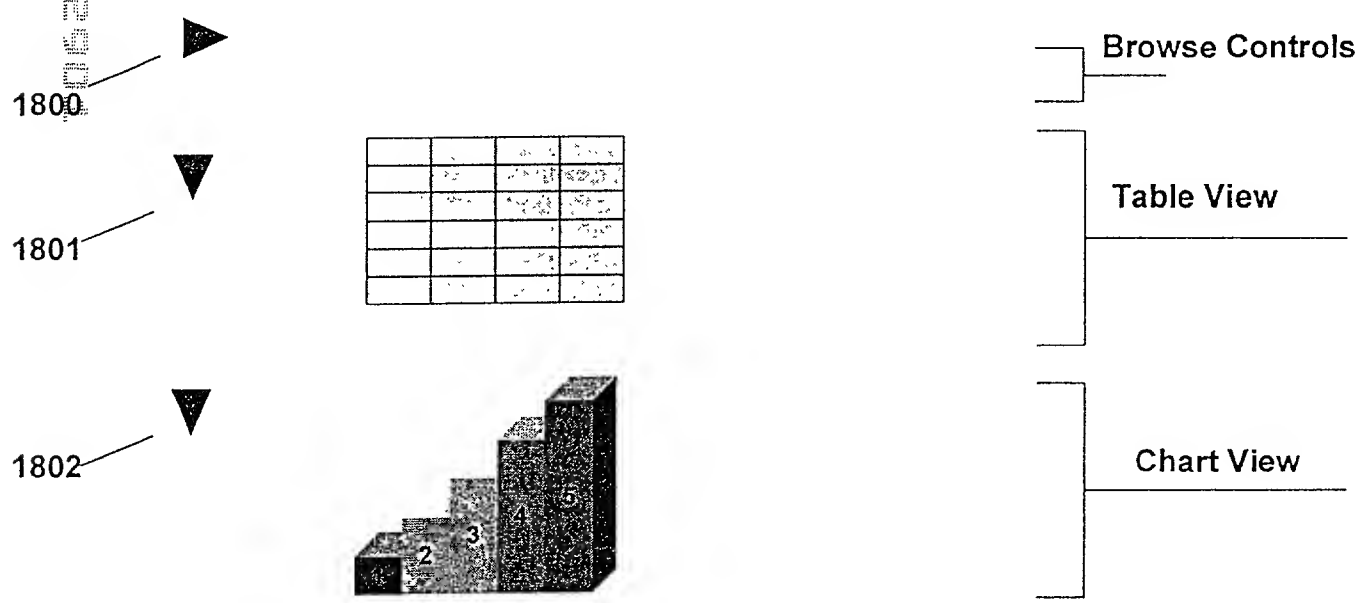


FIG. 20d



# HTML Based Application

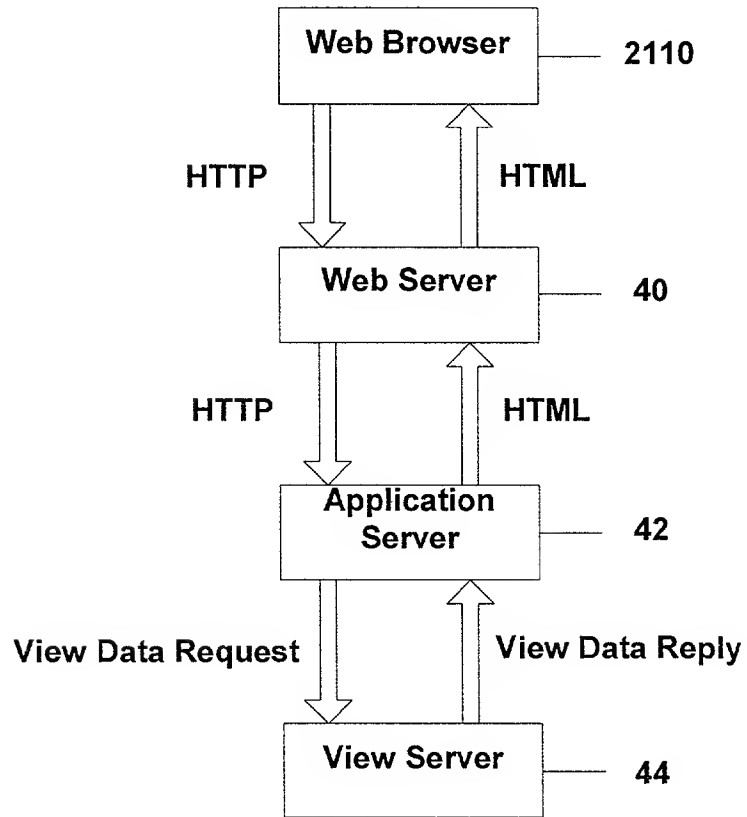


FIG. 21

# Browser Based Client (Java, C#,...) Application

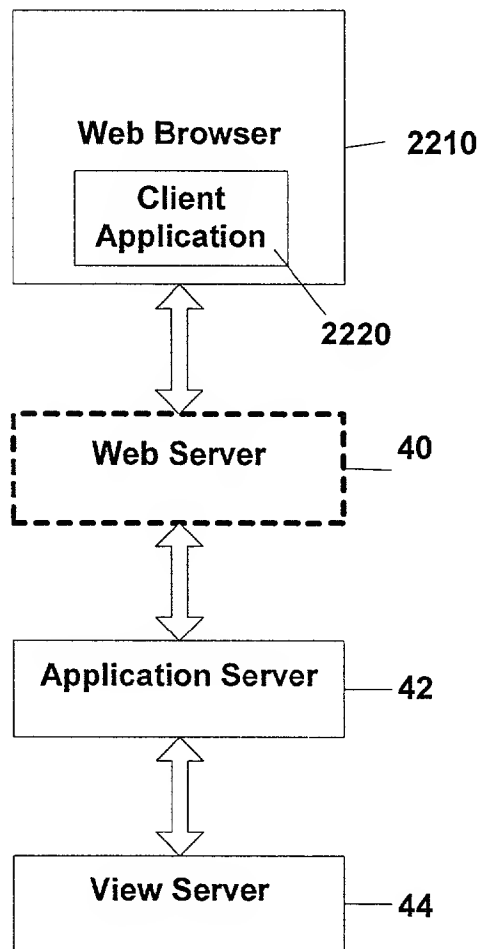


FIG. 22

# Local Client (Java, C#, C++,...) Application

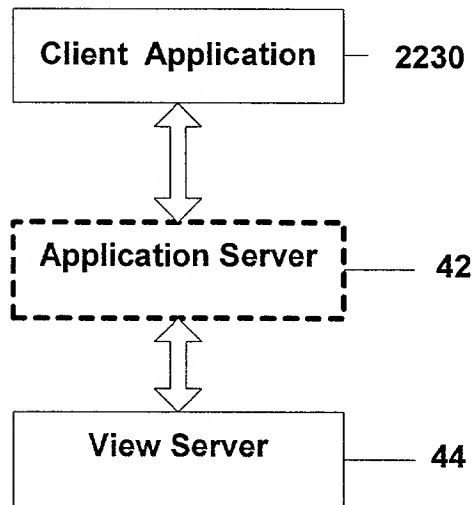


FIG. 22A

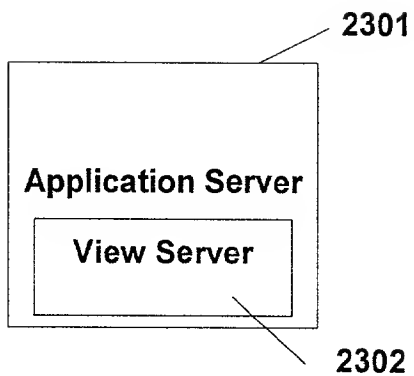


FIG. 23A

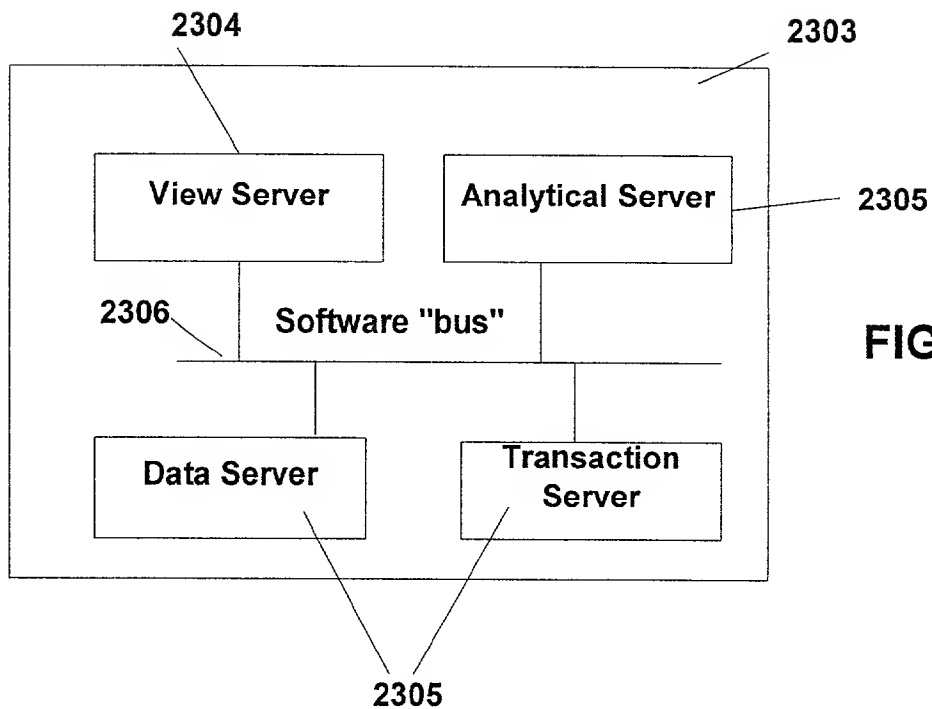


FIG. 23B

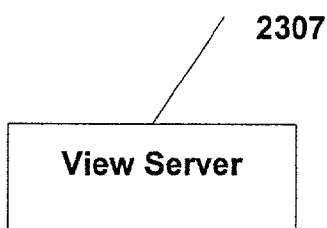


FIG. 23C

# HTML based shared application service

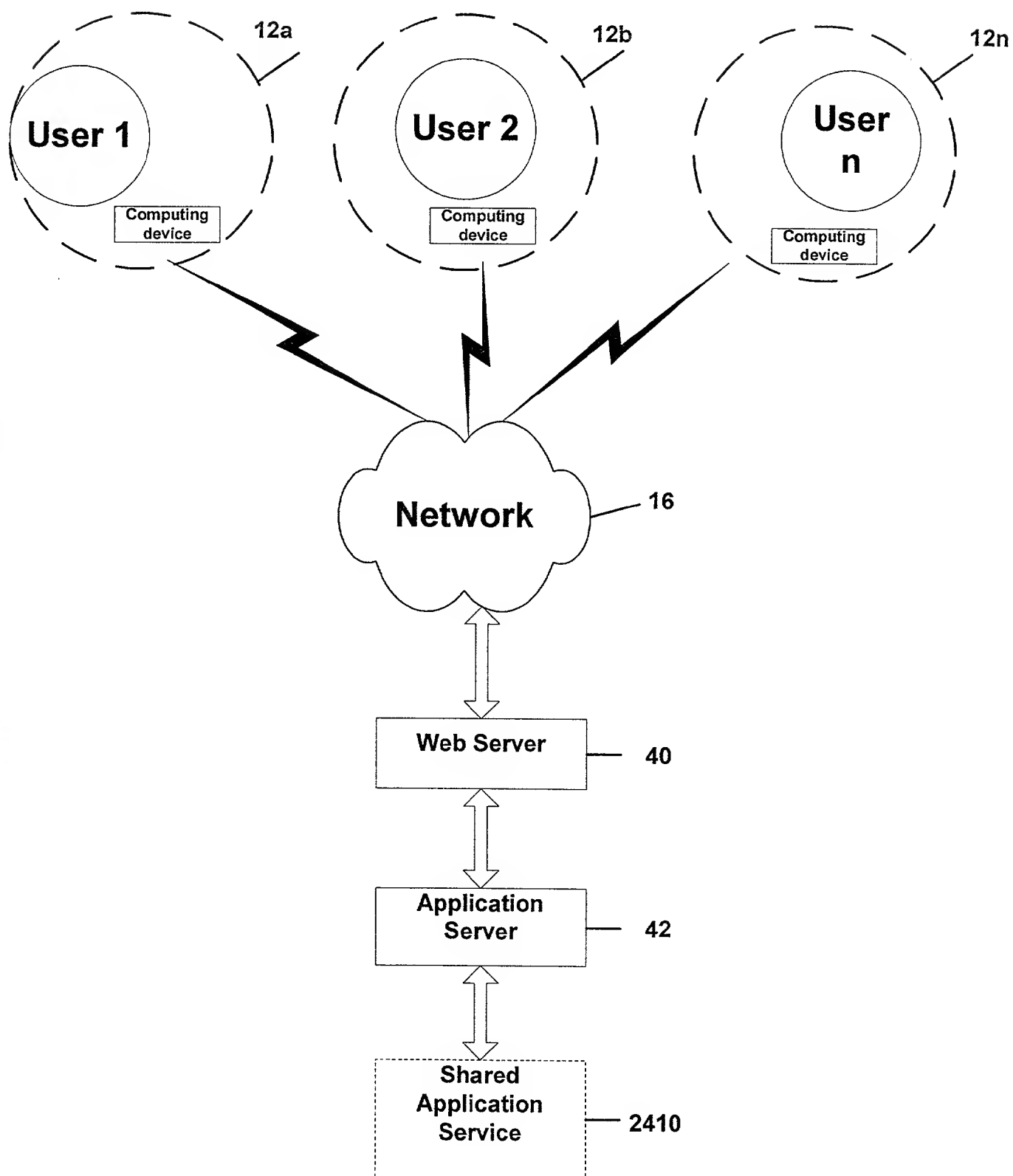


FIG. 24A

Browser based client  
(Java,C#, ...) using shared  
application service

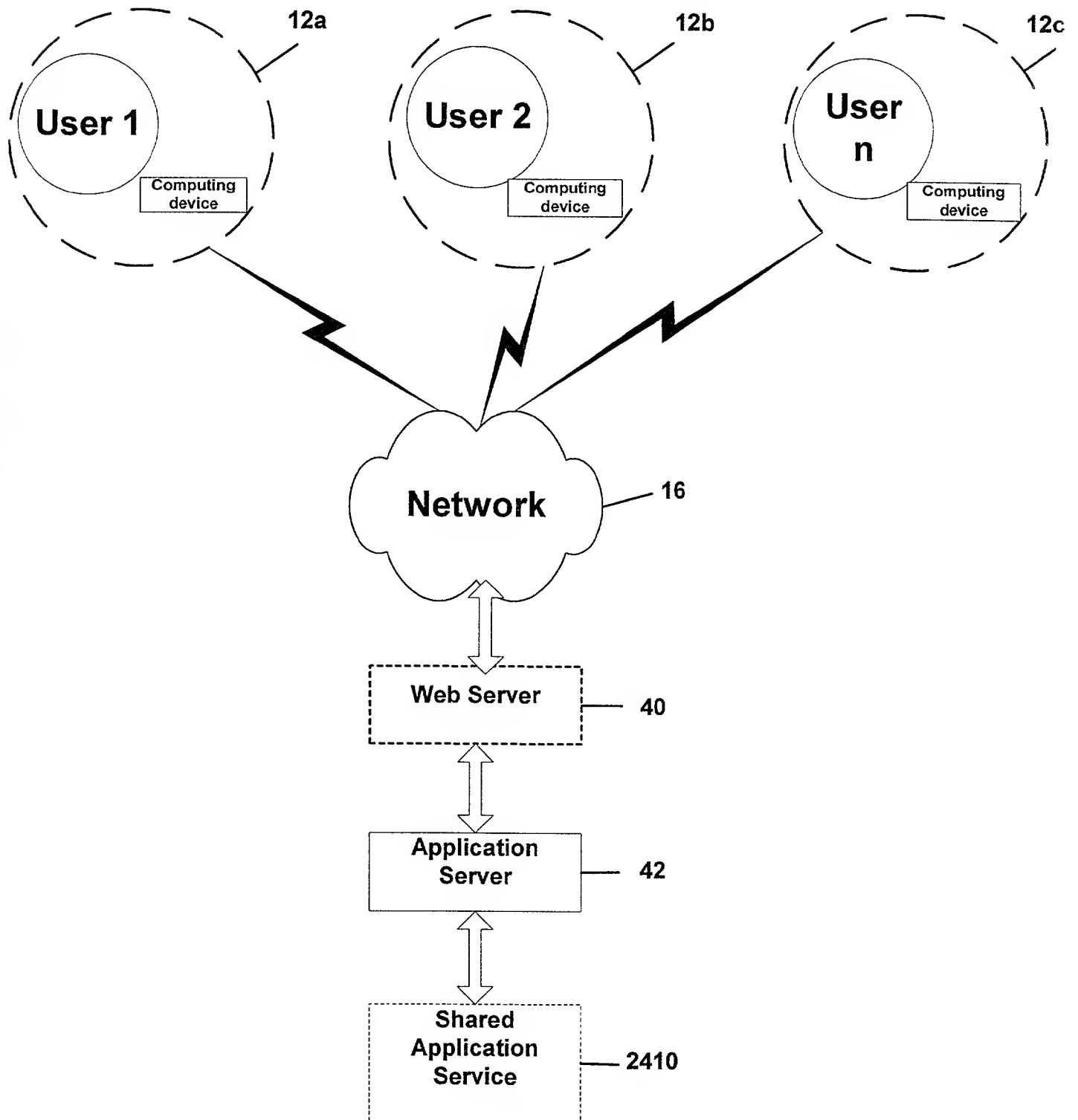


FIG. 24B

Local client (Java, C#, C++,...)  
using shared application  
service

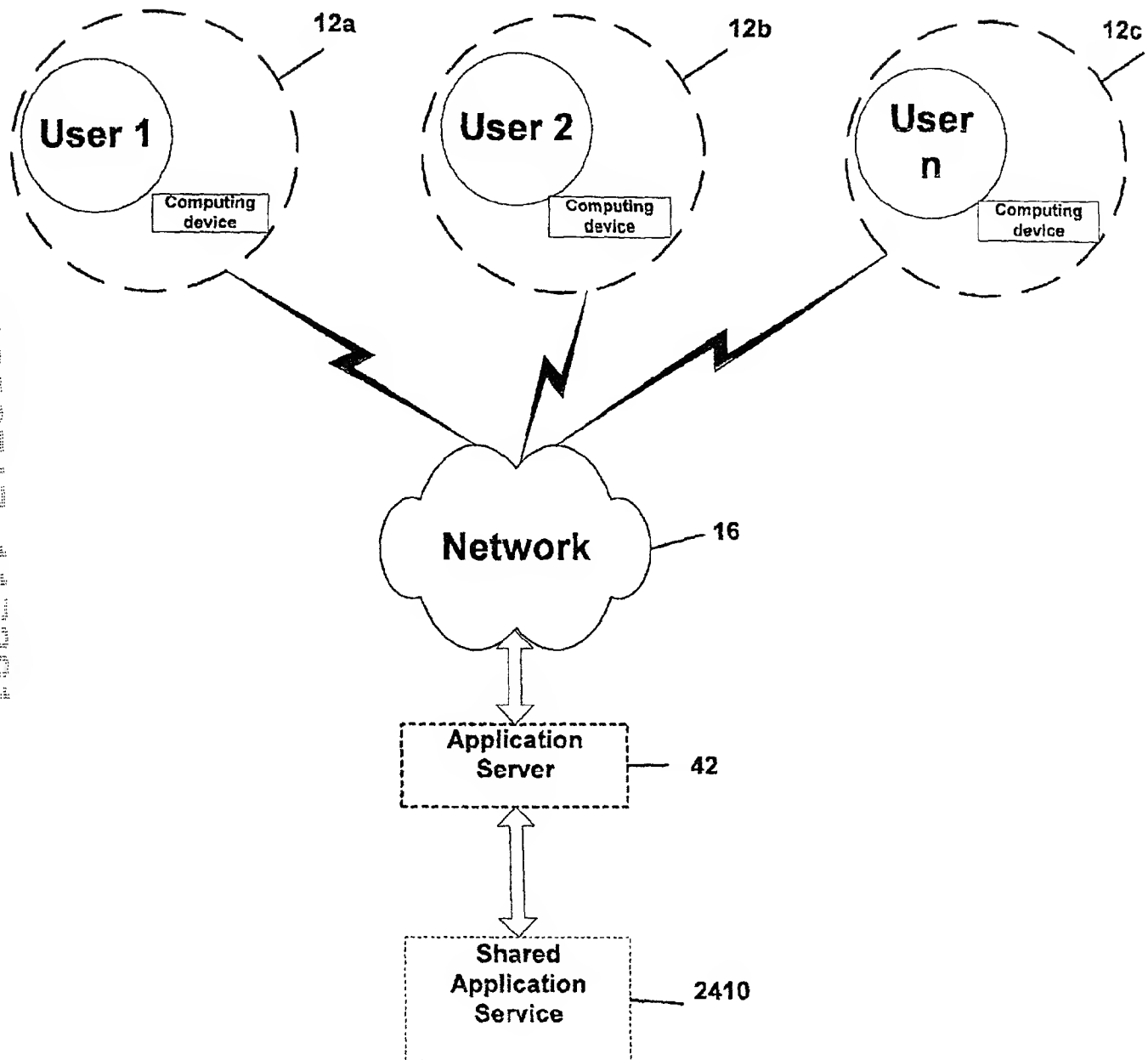


FIG. 24C

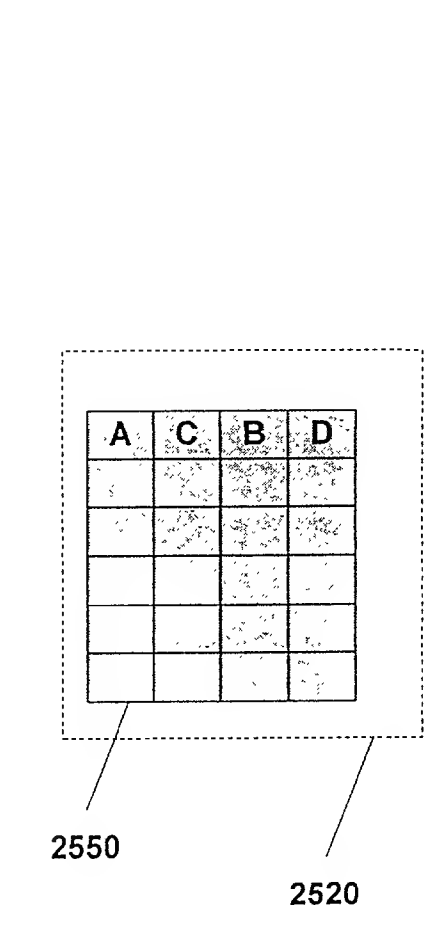
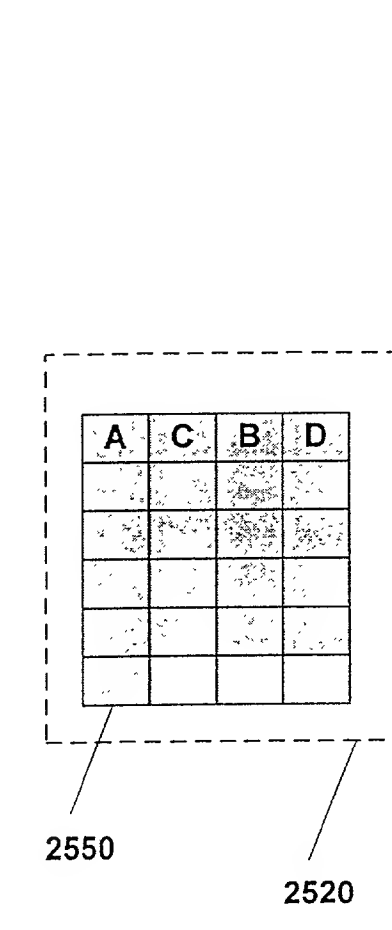
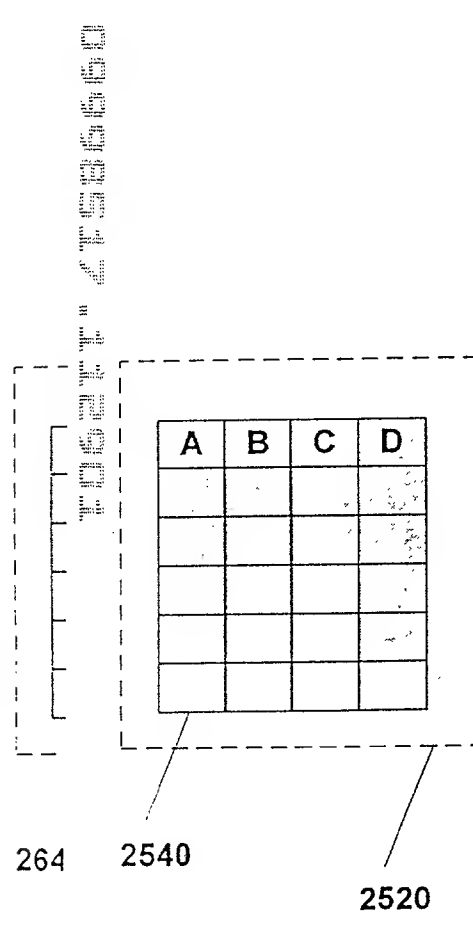
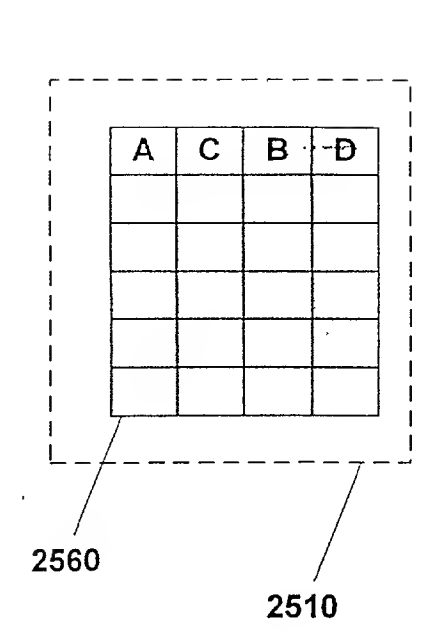
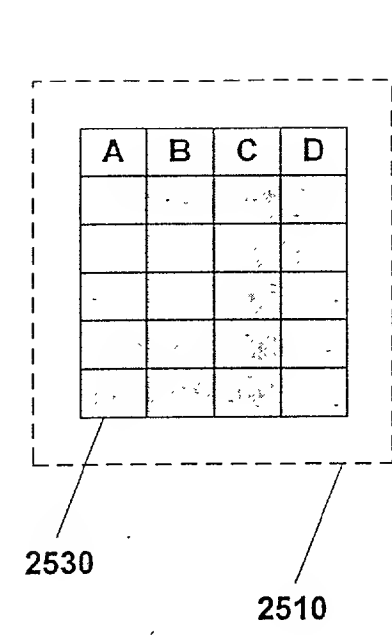
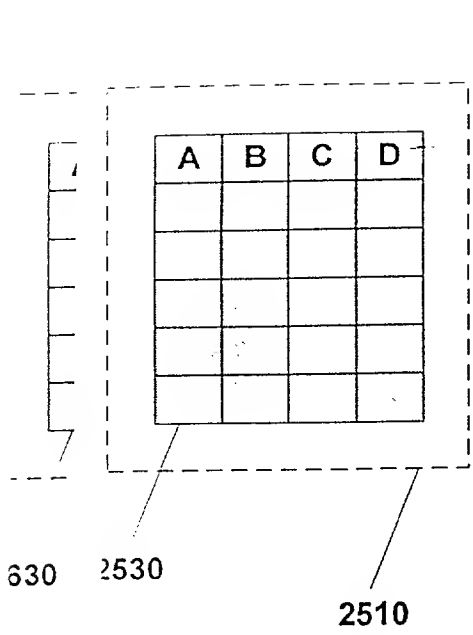


FIG. 25A

FIG. 25B

FIG. 25C



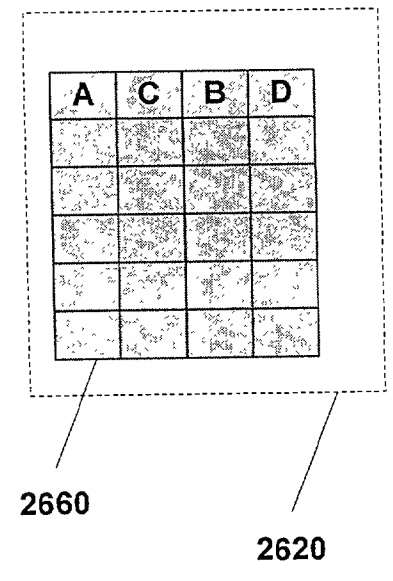
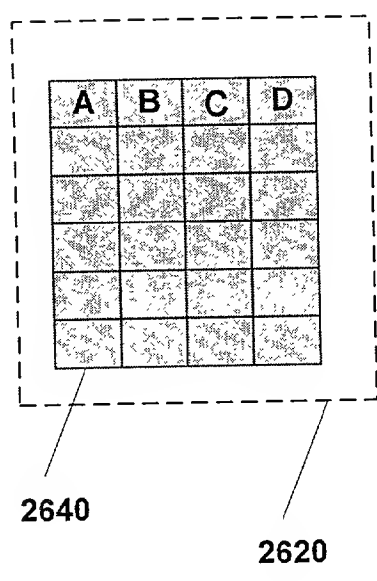
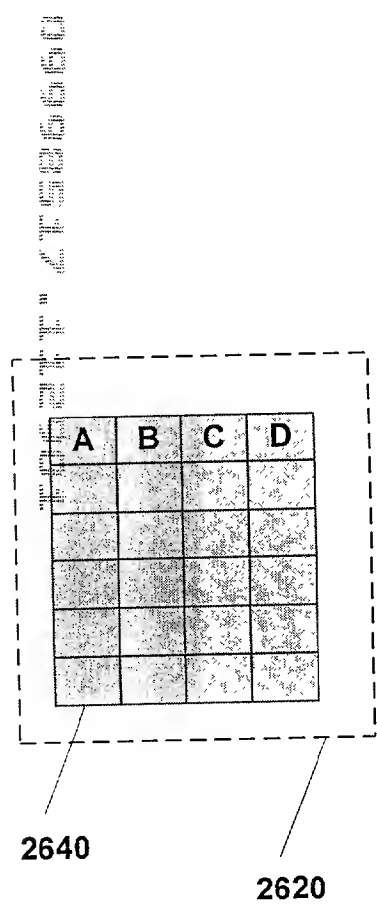
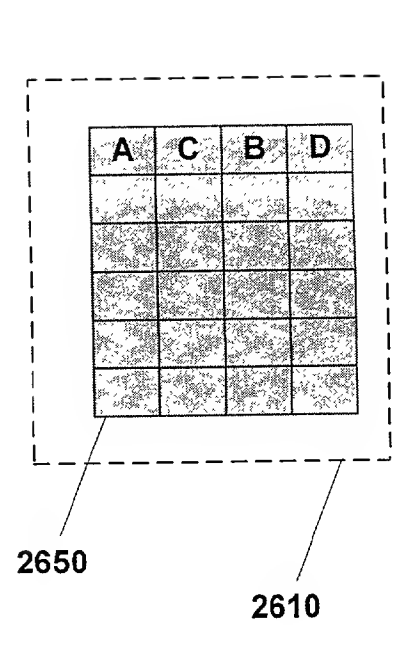
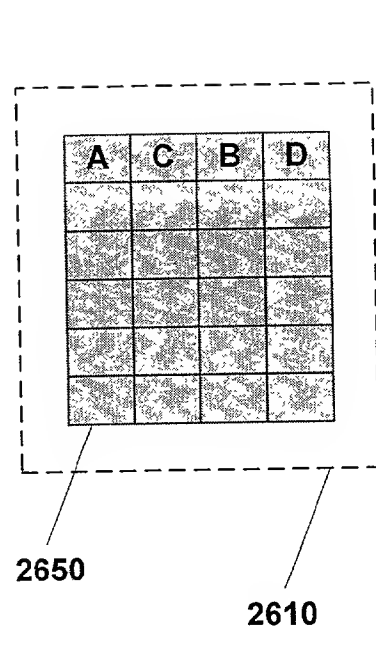
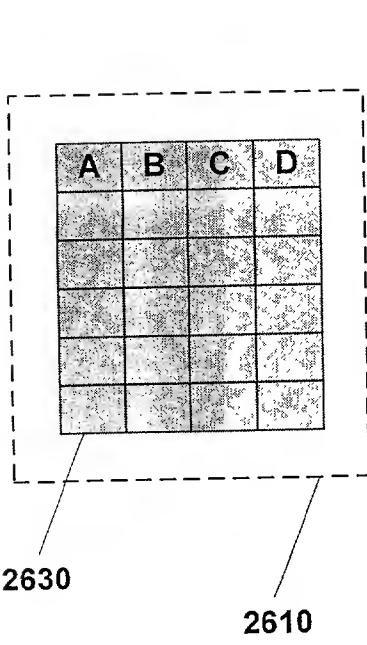
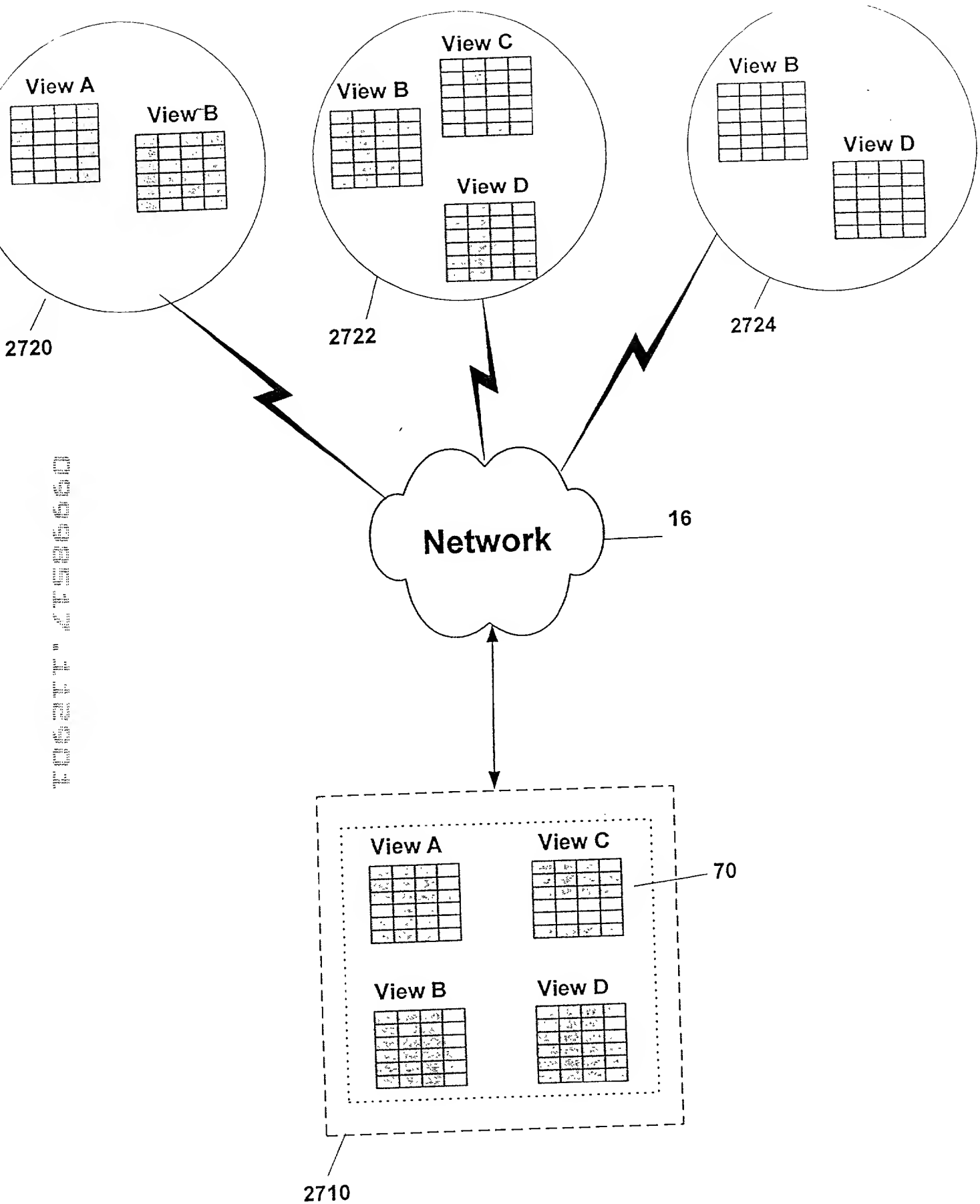


FIG. 26A

FIG. 26B

FIG. 26C



**FIG. 27**

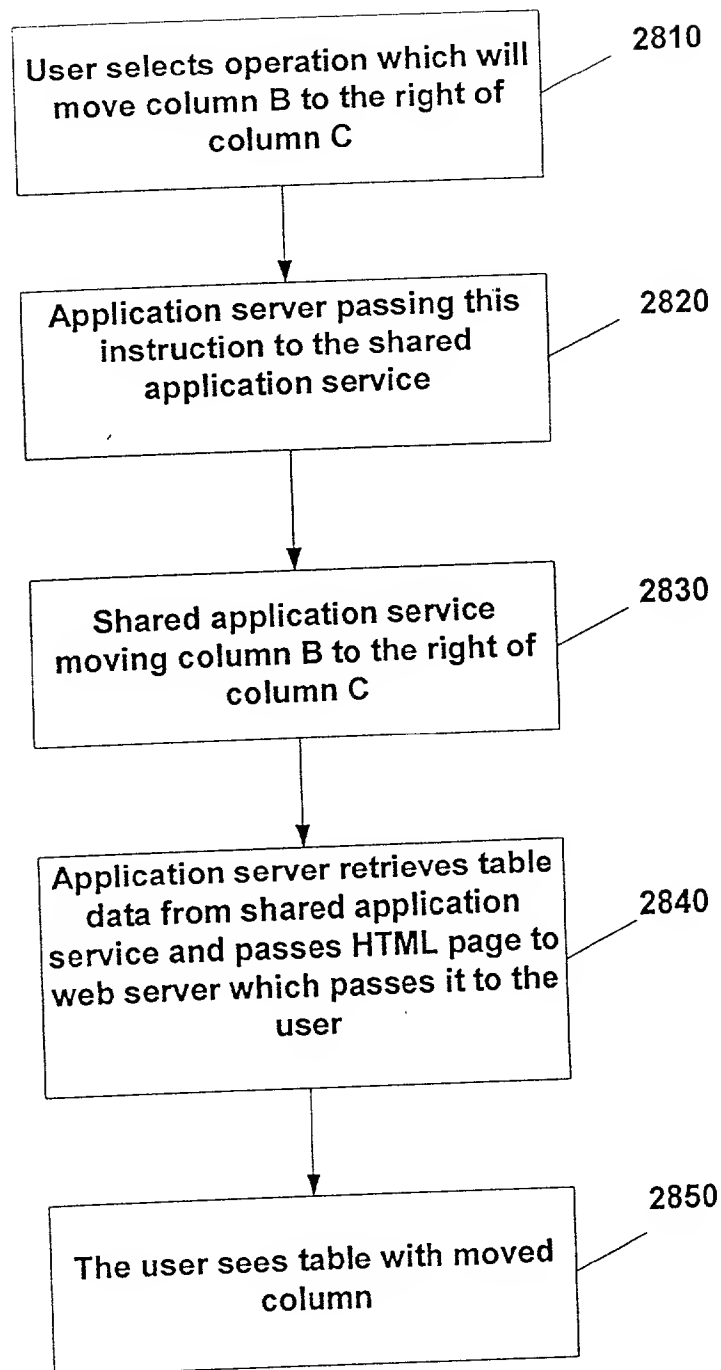
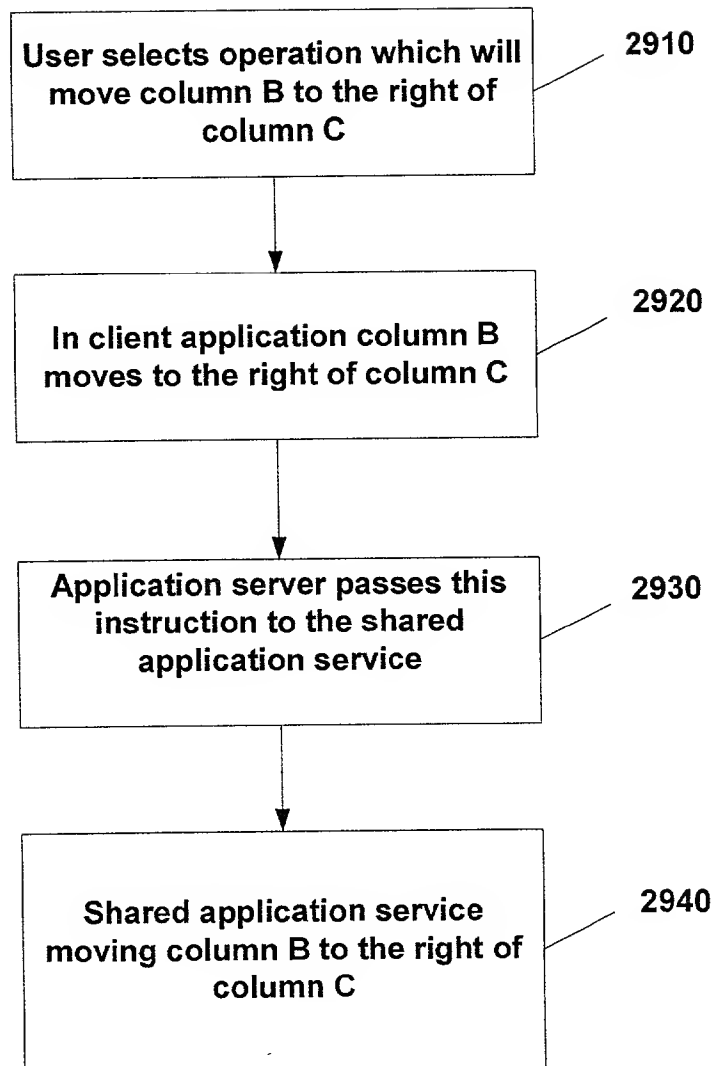
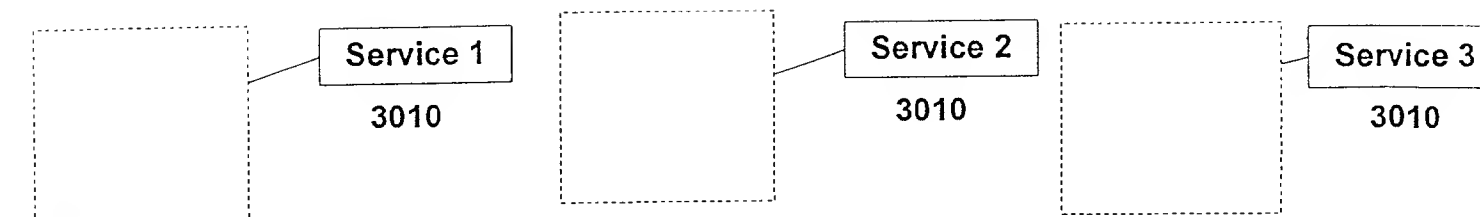


FIG. 28

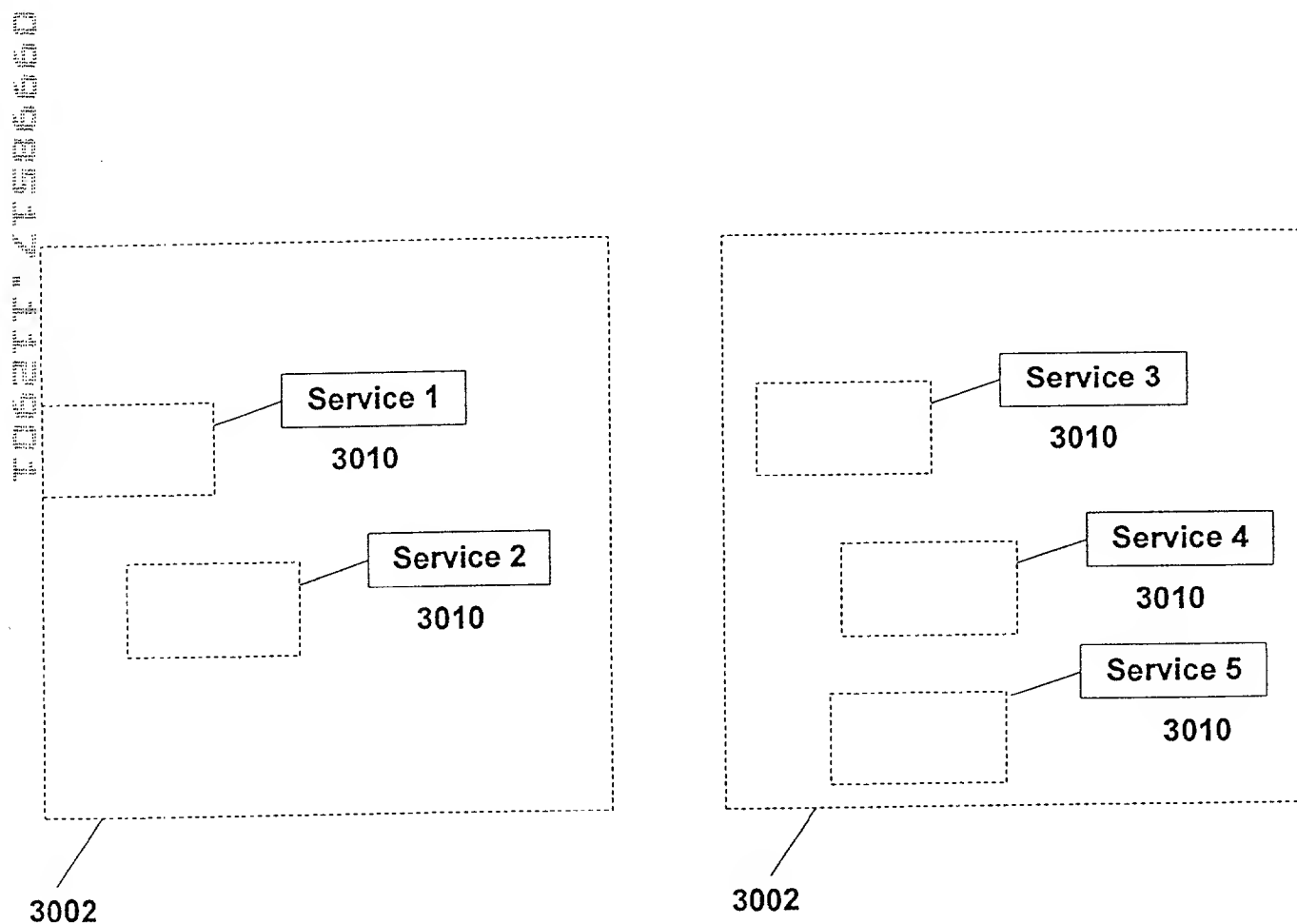


**FIG. 29**



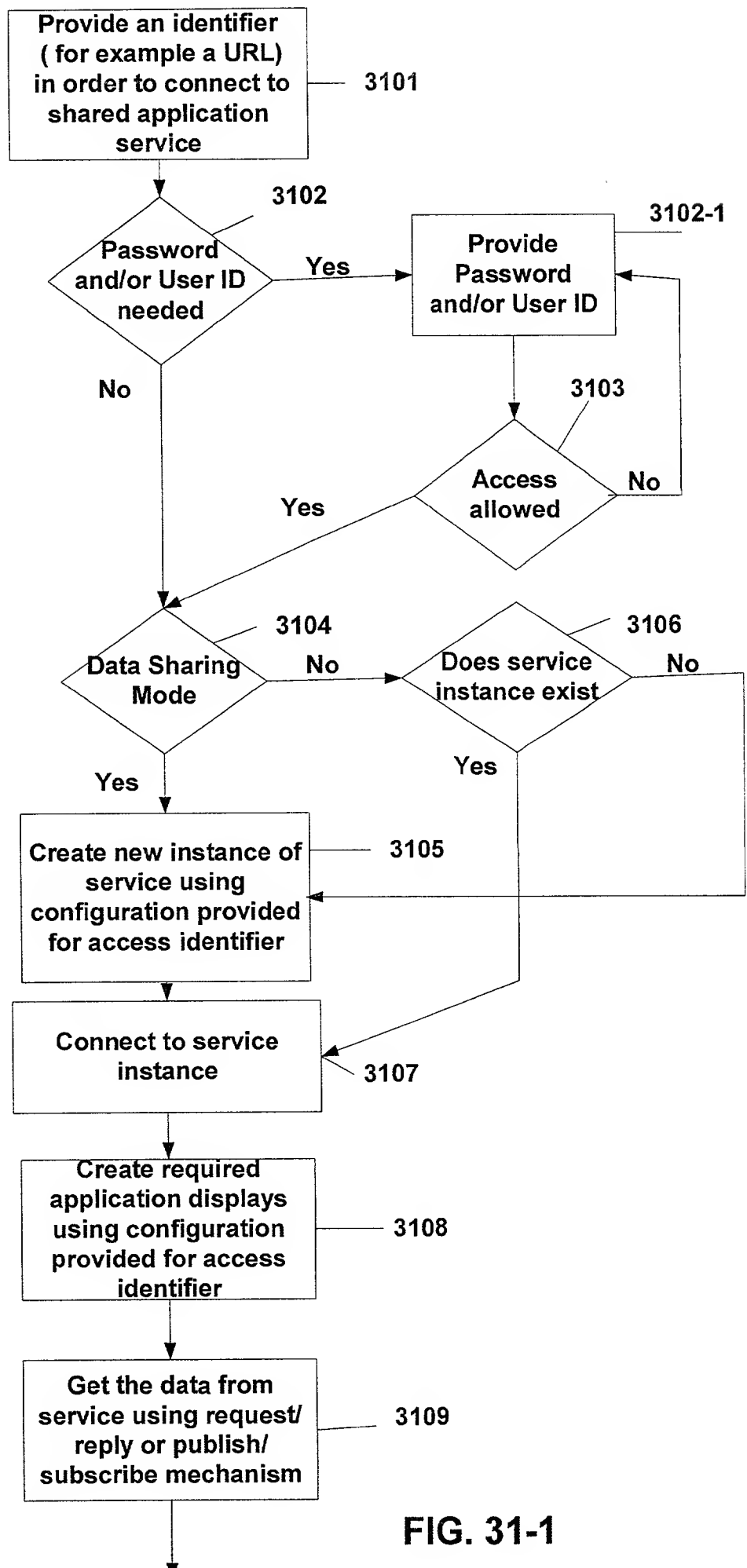
Standalone application service

FIG. 30A



Multi-service applications

FIG. 30B



Continued on  
FIG 31-2

FIG. 31-1

Continued from  
FIG 31-1

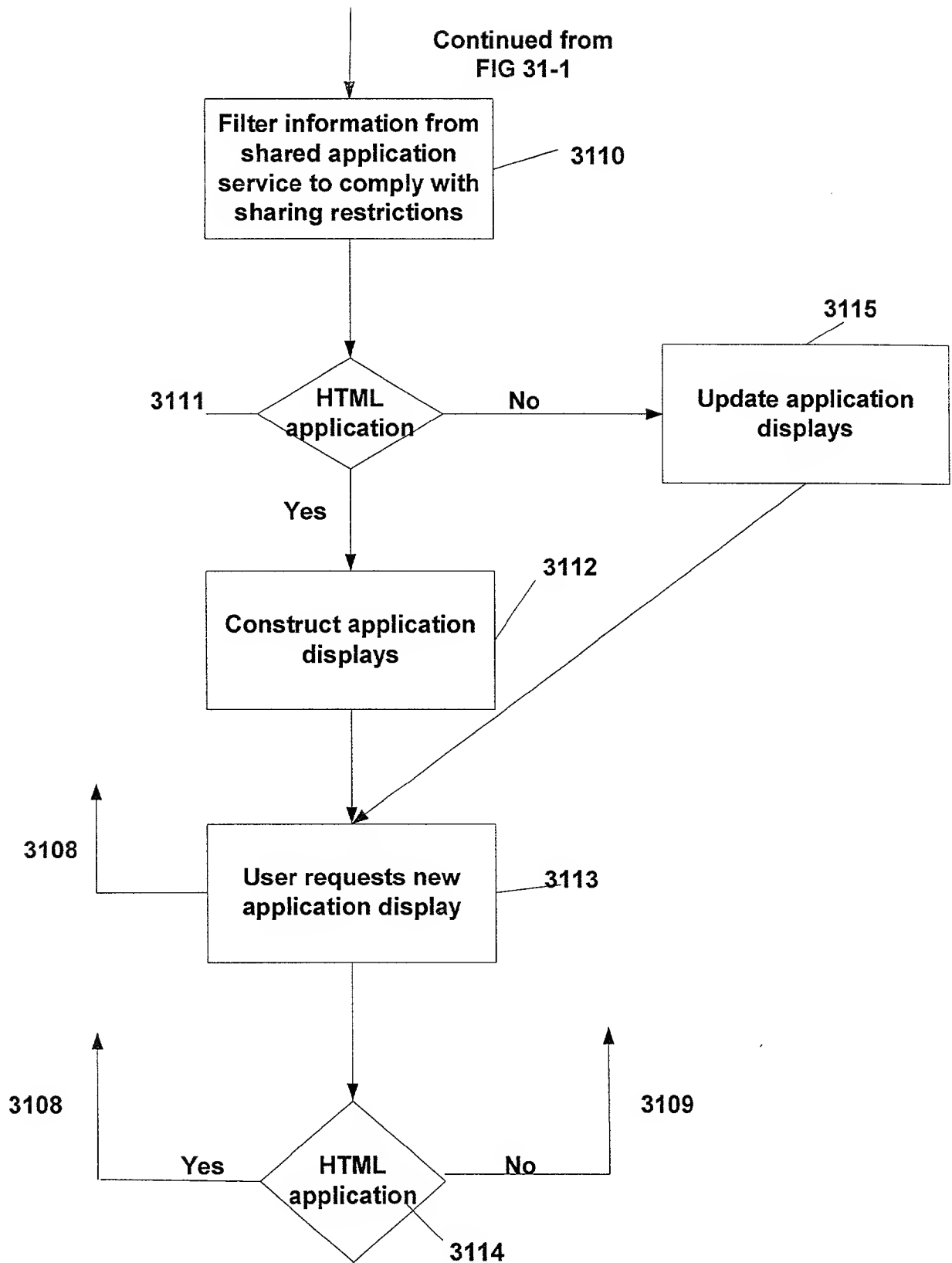
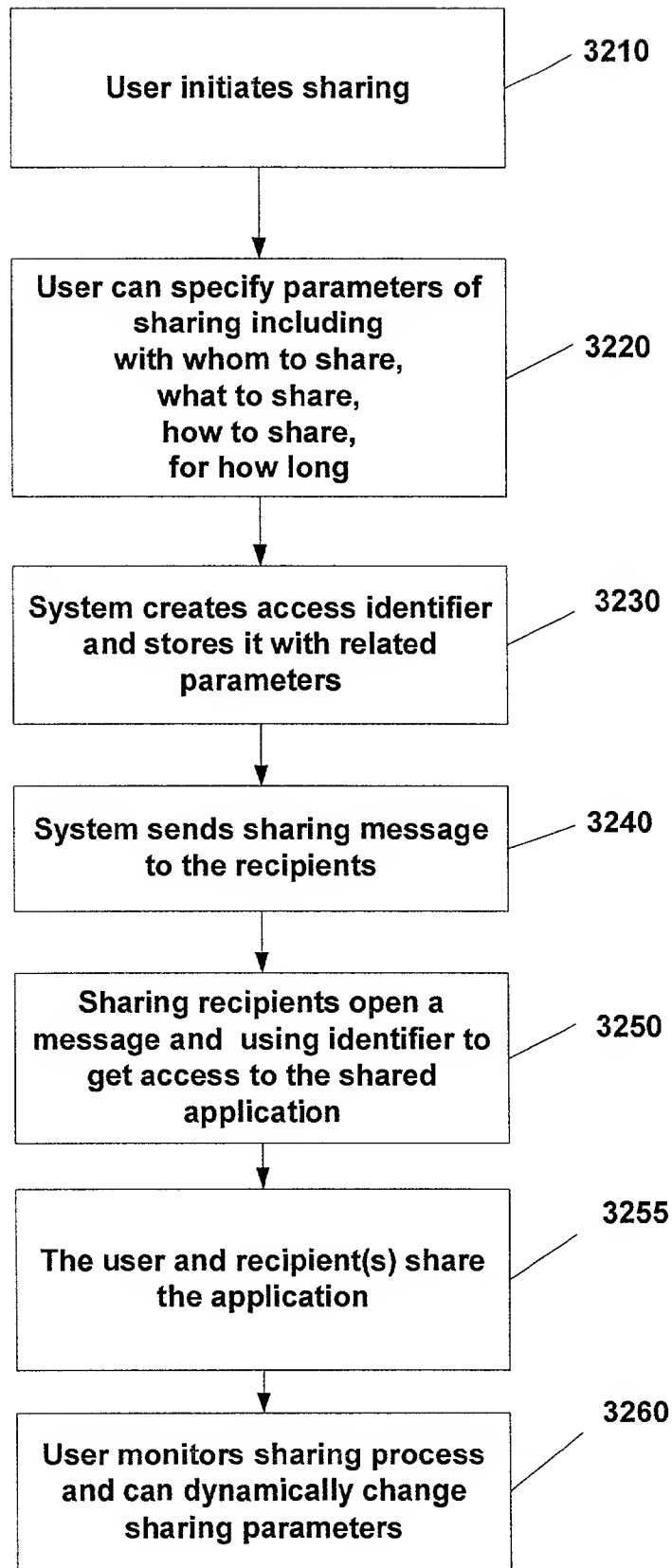


FIG. 31-2



**FIG. 32**



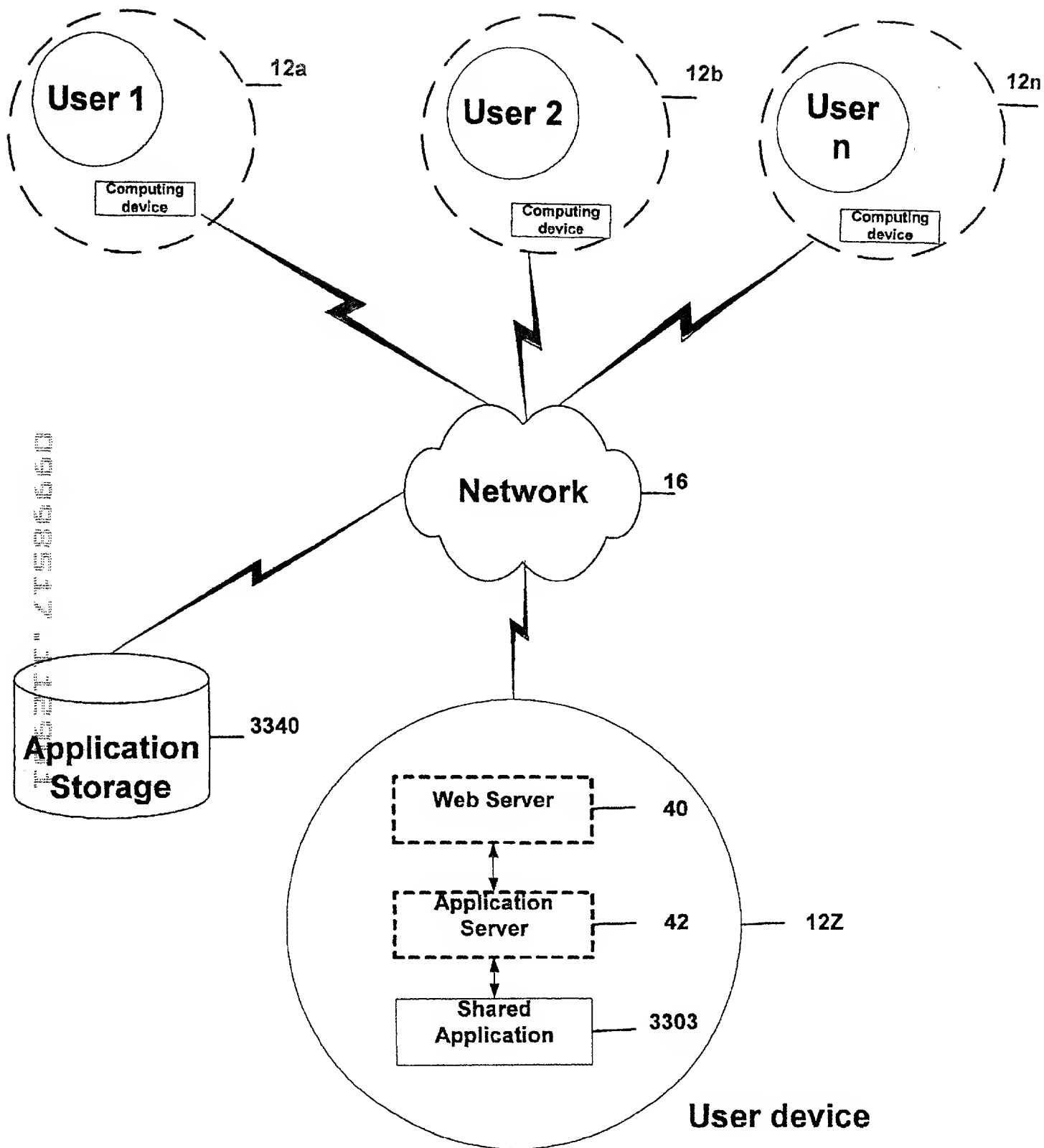
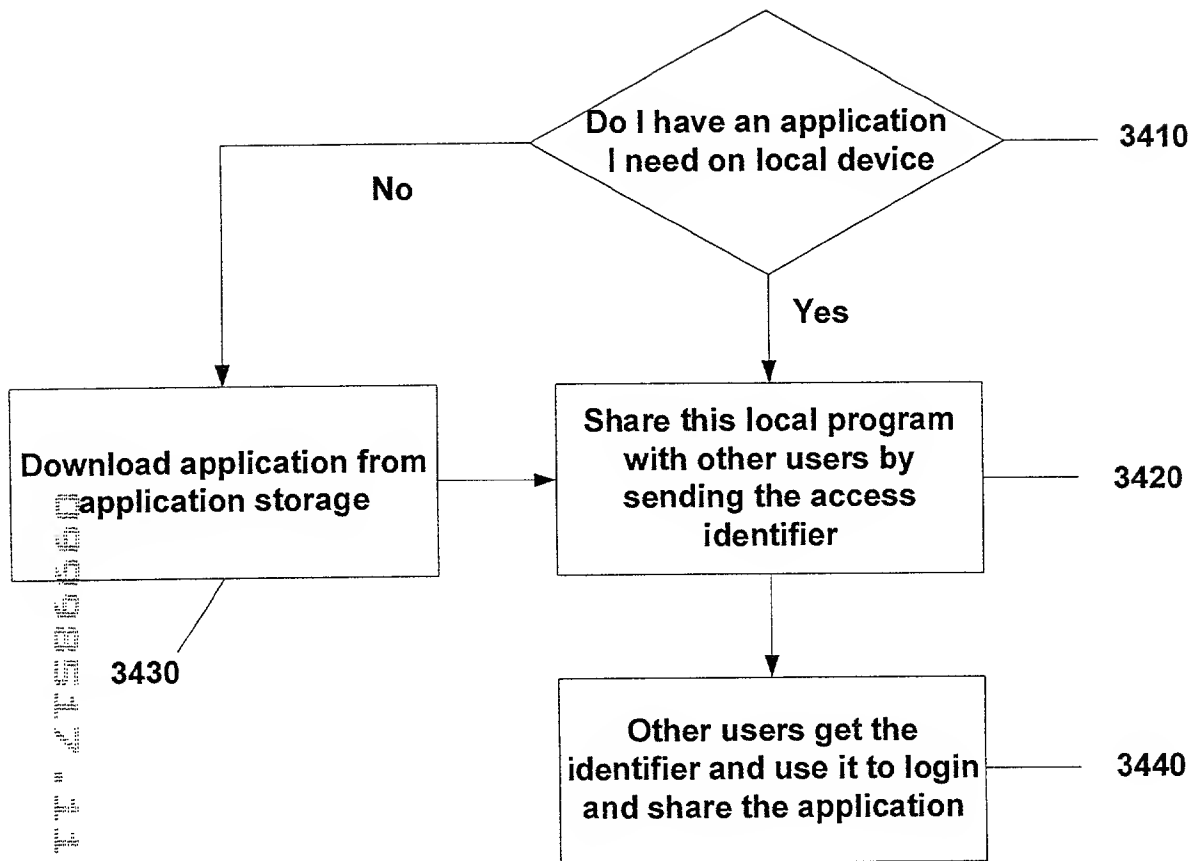
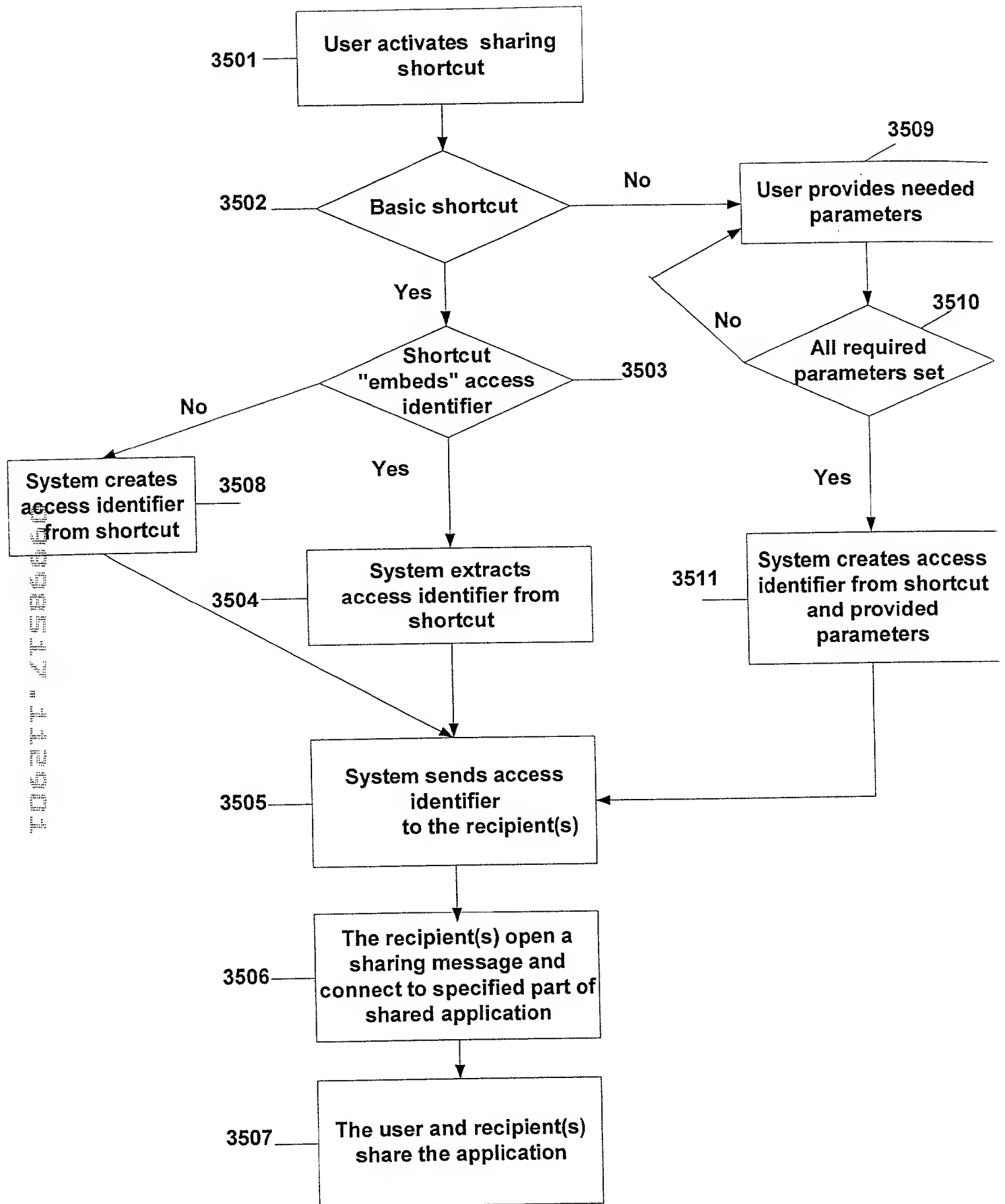


FIG. 33



**FIG. 34**



**FIG. 35**

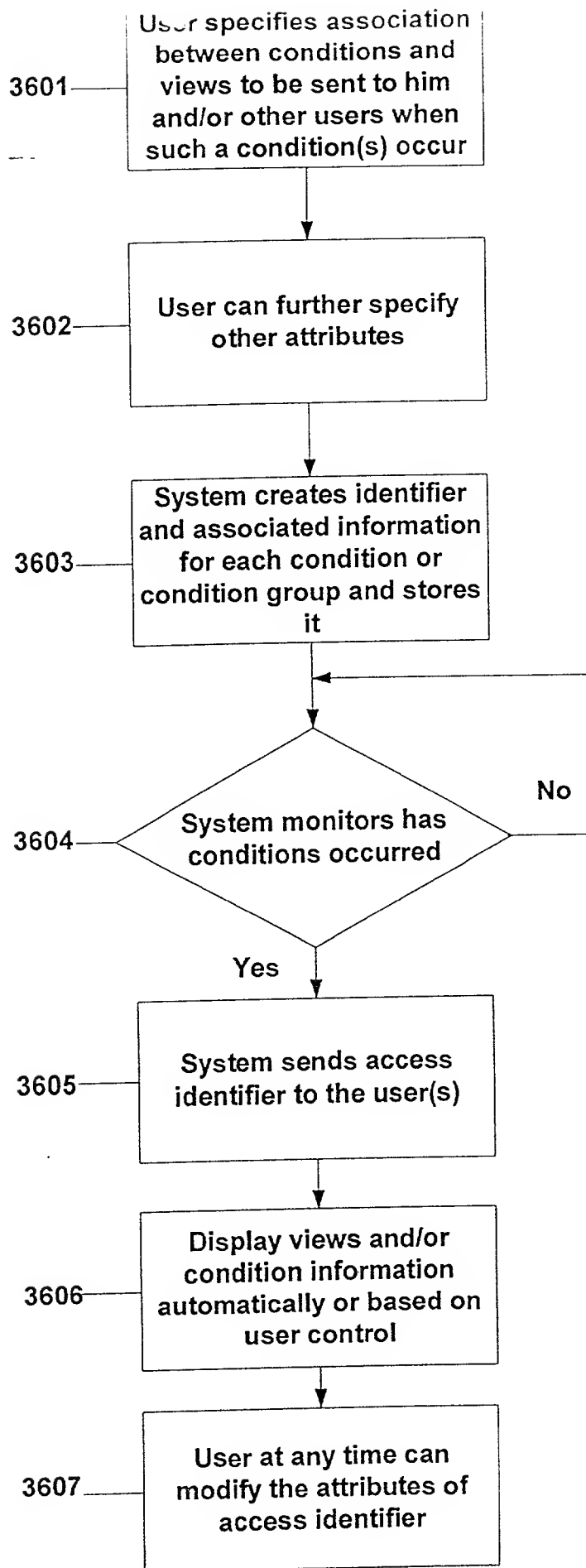


FIG. 36

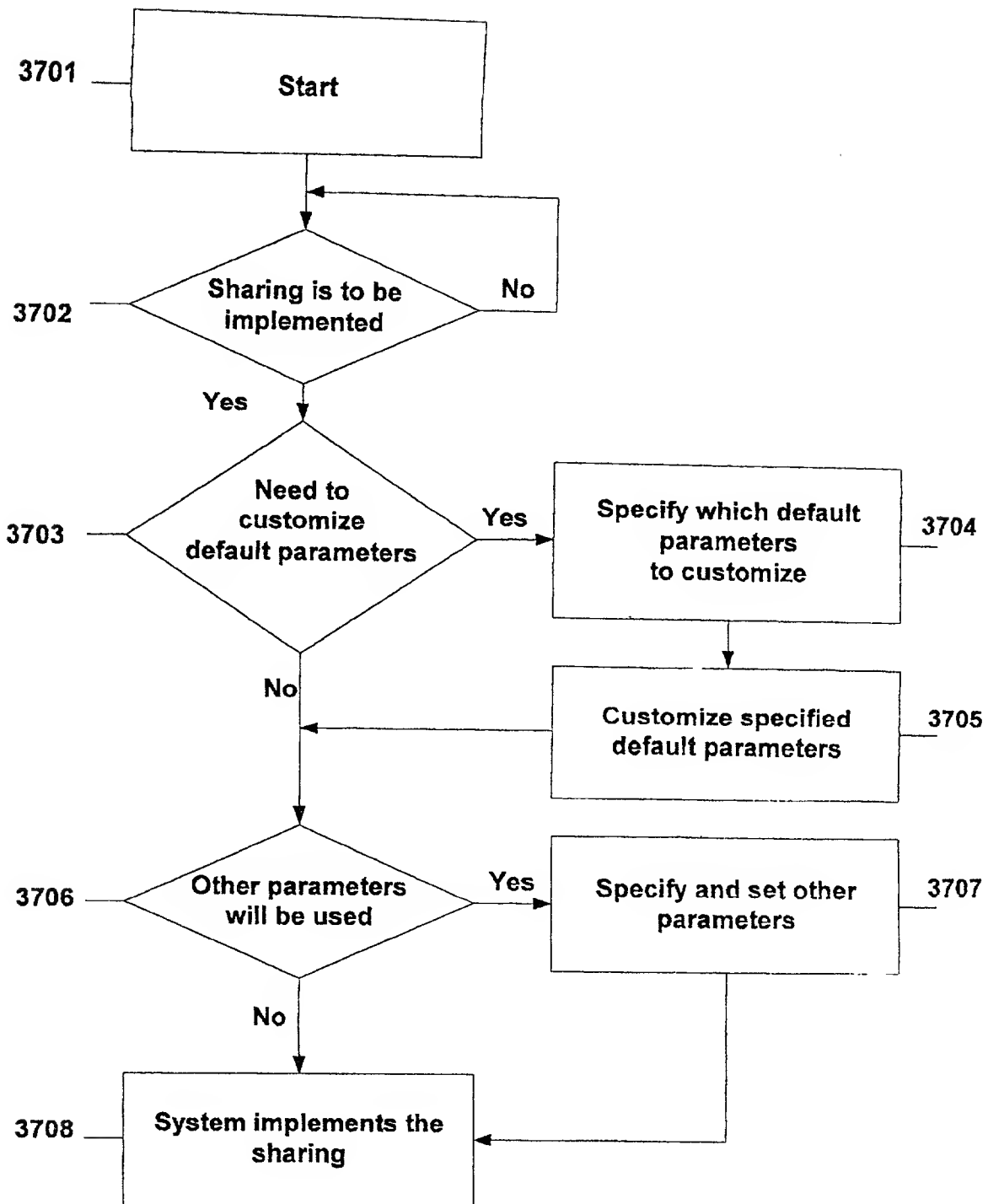
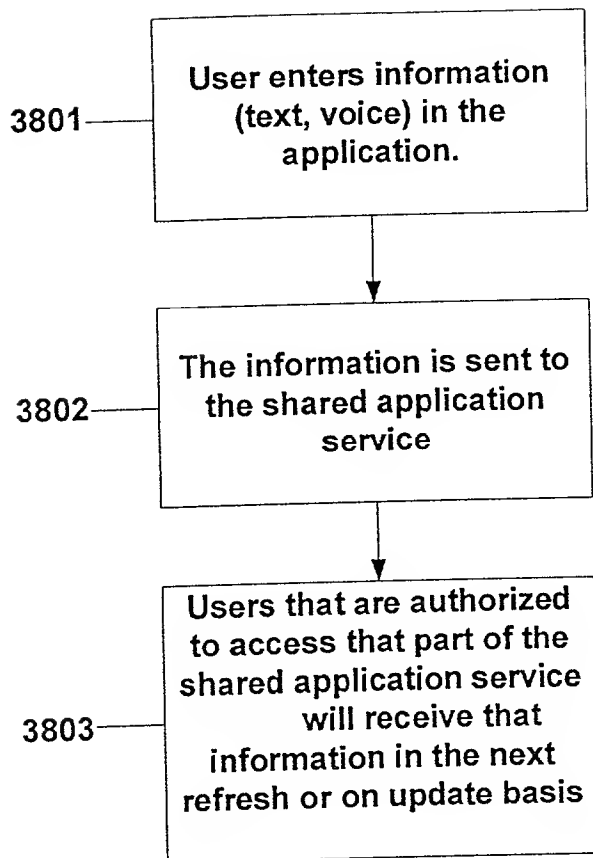
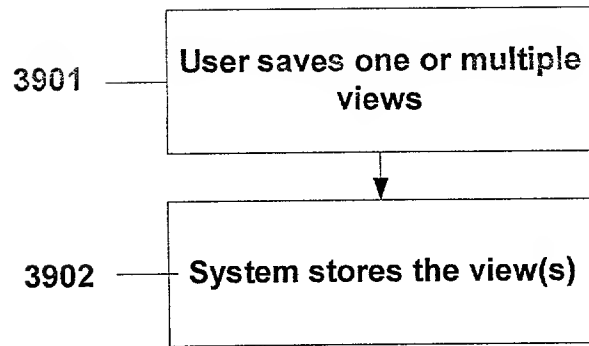


FIG. 37

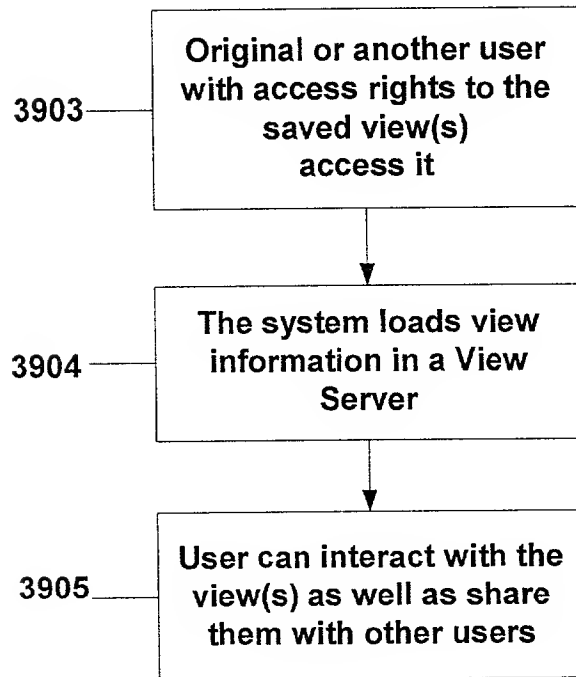
FIG. 38



**FIG. 38**



**FIG. 39A**



**FIG. 39B**

{	{	{	{
A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
Text5	800	700	250
Text6	850	900	600
Text7	800	400	200
TOTAL	5850	3100	1950

FIG. 40A

{	{	{	
B	C	D	
500	100	200	
700	500	100	
800	1100	450	
850	900	600	
1100	500	600	
TOTAL	3100	1950	

FIG. 40B

{	{	{
B	C avg	D
500	100	200
700	500	100
800	550	450
850	900	600
1100	250	600
TOTAL	3100	1950

FIG. 40C



{ A	{ B	{ C	{ D
Text1	1100	200	150
Text3	1100	300	450
TOTAL	2200	500	600

FIG. 40D

4040

{ D	{ B	{ C
100	700	500
150	1100	200
200	1300	500
250	800	700
450	1100	300
600	850	900
TOTAL	5850	3100

FIG. 40E

4050

4101

{	{	{	{
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
Text5	800	700	250
Text6	850	900	600
Text7	800	400	200
<b>TOTAL</b>	<b>5850</b>	<b>3100</b>	<b>1950</b>

FIG. 41A

4110

4102

{	{	{
<b>B</b>	<b>C</b>	<b>D</b>
500-750	600	300
750-1000	2000	1050
1000-1250	500	600
<b>TOTAL</b>	<b>3100</b>	<b>1950</b>

FIG. 41B

4120

4003

{	{	{
<b>B</b>	<b>C avg</b>	<b>D</b>
500-750	300	300
750-1000	666.67	1050
1000-1250	250	600
<b>TOTAL</b>	<b>3100</b>	<b>1950</b>

FIG. 41C

4130

4201

*	*	*	*
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
Text5	800	700	250
Text6	850	900	600
Text7	800	400	200
<b>TOTAL</b>	<b>5850</b>	<b>3100</b>	<b>1950</b>

4210

FIG. 42A

4202

*	*	*	*
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Text2	500	100	200
Text4	700	500	100
Text5	800	700	250
Text6	850	900	600
Text7	800	400	200
<b>TOTAL</b>	<b>3650</b>	<b>2600</b>	<b>1350</b>

4220

FIG. 42B

4203

*	*	*	*
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Text2	500	100	200
Text4	700	500	100
Text5	800	700	250
Text7	800	400	200
<b>TOTAL</b>	<b>2800</b>	<b>1700</b>	<b>750</b>

4230

FIG. 42C

A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
TOTAL	2700	600	800

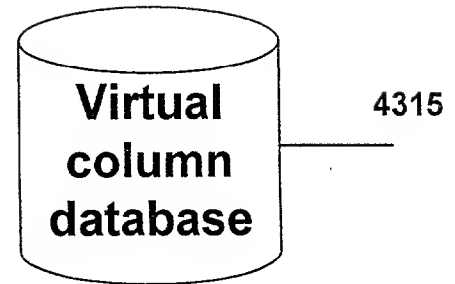


FIG. 43A

A	B	C	D	M
Text1	1100	200	150	125
Text2	500	100	200	175
Text3	1100	300	450	100
TOTAL	2700	600	800	400

FIG. 43B

A	B	C	D	M
Text1	1100	200	150	125
Text2	500	100	200	175
Text3	1100	300	450	100
TOTAL	2700	600	800	400

FIG. 43C

A	B	D	M
Text1	1100	150	125
Text2	500	200	175
Text3	1100	450	100
TOTAL	2700	800	400

FIG. 43D

A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
TOTAL	2700	600	800

4350

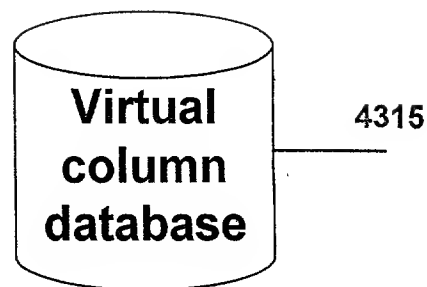


FIG. 43E

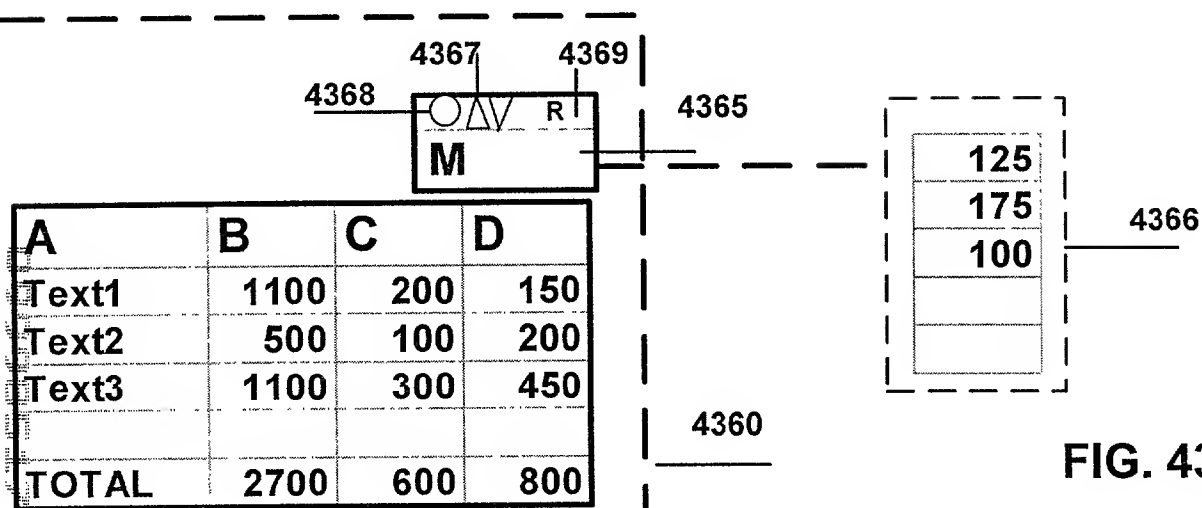


FIG. 43F

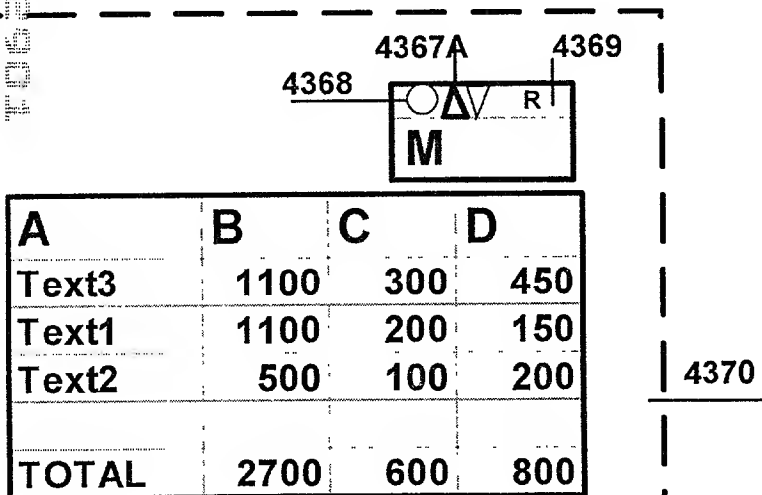
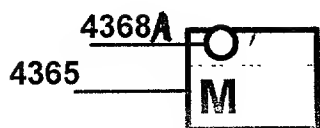


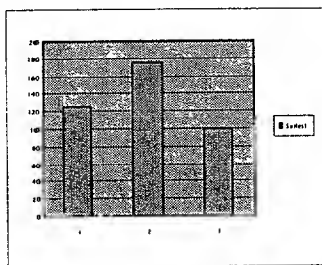
FIG. 43G



A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
TOTAL	2700	600	800

4380

FIG. 43H

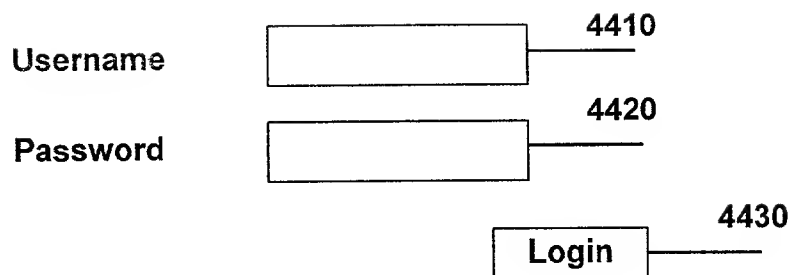


4385

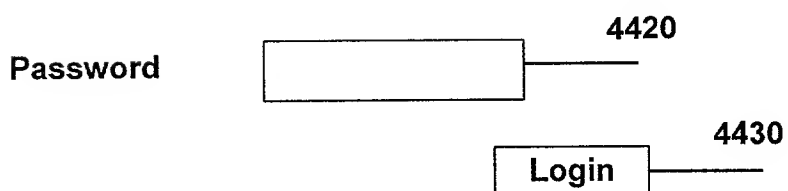
A	B	C	D	M
Text1	1100	200	150	125
Text2	500	100	200	175
Text3	1100	300	450	100
TOTAL	2700	600	800	400

4390

FIG. 43J



**FIG. 44A**



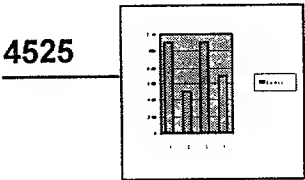
**FIG. 44B**

4501			
O	O	O	O
A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
4510			
TOTAL	3400	1100	900

FIG. 45A

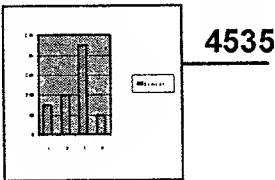
4502			
4503			
O	O	O	O
A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
4510			
TOTAL	3400	1100	900

FIG. 45B



4501			
4504			
O	O	O	O
A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
4510			
TOTAL	3400	1100	900

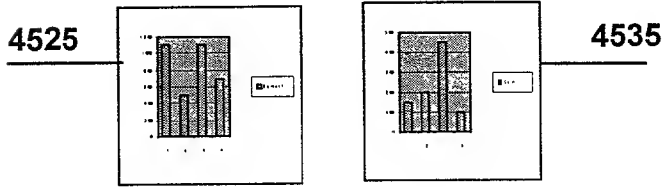
FIG. 45C





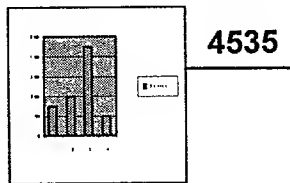
o	4502	o	4504	o	o
A	B	C	D		
Text1	1100	200	150		
Text2	500	100	200		
Text3	1100	300	450		
Text4	700	500	100		
TOTAL	3400	1100	900	4510	

FIG. 45D



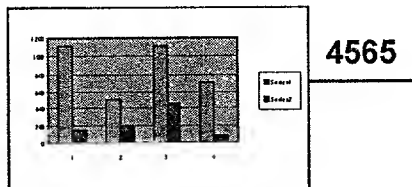
o	4501	o	4504	o	o
A	B	C	D		
Text1	1100	200	150		
Text2	500	100	200		
Text3	1100	300	450		
Text4	700	500	100		
TOTAL	3400	1100	900	4510	

FIG. 45E



o	o	o	4504	o	o
A	B	C	D		
Text1	1100	200	150		
Text2	500	100	200		
Text3	1100	300	450		
Text4	700	500	100		
TOTAL	3400	1100	900	4510	

FIG. 45F



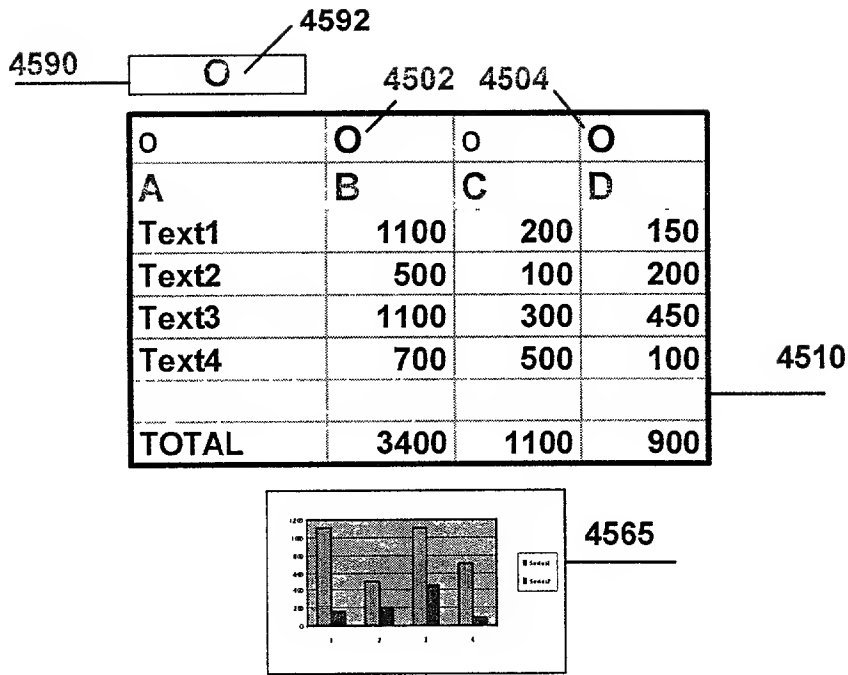


FIG. 45G

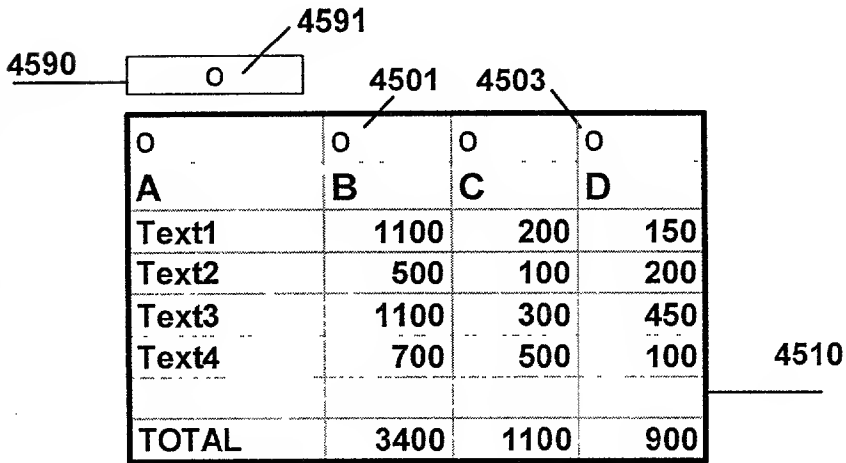


FIG. 45H

4602		4603		
△▽		△▽	△▽	
A	B	C		
Text1	2/15/99	1000		
Text2	3/12/99	3500		
Text1	3/12/99	1800		
Text1	2/15/99	1500		
Text1	5/20/99	500		
Text2	3/12/99	2000		
Text1	2/15/99	1000		
Text2	3/12/99	3500		
Text2	6/8/99	1000		
Text2	4/10/99	2000		

FIG. 46A

4602A		4604		
△▽		△▽	△▽	
A	B	C		
Text1	2/15/99	1000		
Text1	3/12/99	1800		
Text1	2/15/99	1500		
Text1	5/20/99	500		
Text1	2/15/99	1000		
Text2	3/12/99	3500		
Text2	3/12/99	2000		
Text2	3/12/99	3500		
Text2	6/8/99	1000		
Text2	4/10/99	2000		

FIG. 46B

4602A		4604A		
△▽		△▽	△▽	
A	B	C		
Text1	2/15/99	1000		
Text1	2/15/99	1500		
Text1	2/15/99	1000		
Text1	3/12/99	1800		
Text1	5/20/99	500		
Text2	3/12/99	3500		
Text2	3/12/99	2000		
Text2	3/12/99	3500		
Text2	4/10/99	2000		
Text2	6/8/99	1000		

FIG. 46C

4602A	4604A	4606A	
Δ ▽	Δ ▽	Δ ▽	
A	B	C	
Text1	2/15/99	1000	
Text1	2/15/99	1000	
Text1	2/15/99	1500	
Text1	3/12/99	1800	4640
Text1	5/20/99	500	
Text2	3/12/99	2000	
Text2	3/12/99	3500	
Text2	3/12/99	3500	
Text2	4/10/99	2000	
Text2	6/8/99	1000	

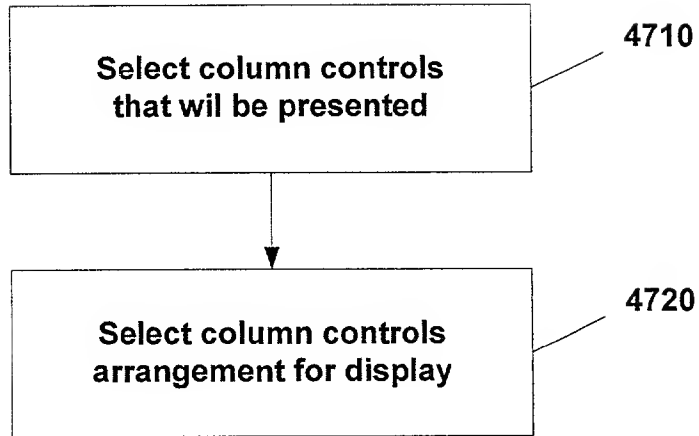
FIG. 46D

4602A	4604A	4606A	4608
Δ ▽	Δ ▽	Δ ▽	
B	A	C	
2/15/99	Text1	1000	
2/15/99	Text1	1000	
2/15/99	Text1	1500	
3/12/99	Text1	1800	4650
3/12/99	Text2	2000	
3/12/99	Text2	3500	
3/12/99	Text2	3500	
4/10/99	Text2	2000	
5/20/99	Text1	500	
6/8/99	Text2	1000	

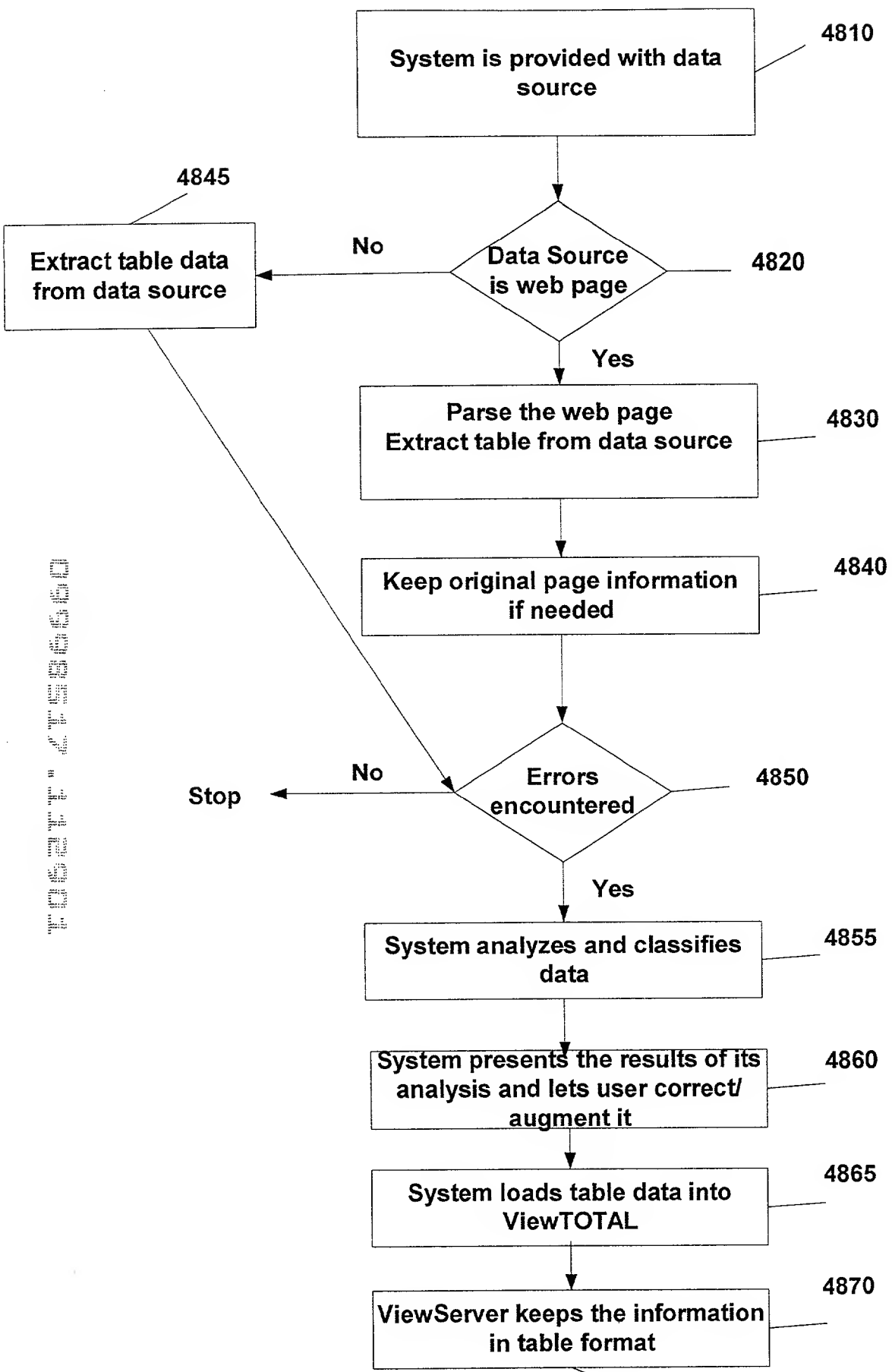
FIG. 46E

4602A	4604A	4606	4608A
Δ ▽	Δ ▽	Δ ▽	
B	A	C	
2/15/99	Text1	1500	
2/15/99	Text1	1000	
2/15/99	Text1	1000	
3/12/99	Text1	1800	4660
3/12/99	Text2	3500	
3/12/99	Text2	3500	
3/12/99	Text2	2000	
4/10/99	Text2	2000	
5/20/99	Text1	500	
6/8/99	Text2	1000	

FIG. 46F



**FIG. 47**



**FIG. 48-1**

Continued on  
FIG. 48-2

Continued from  
FIG. 48-1

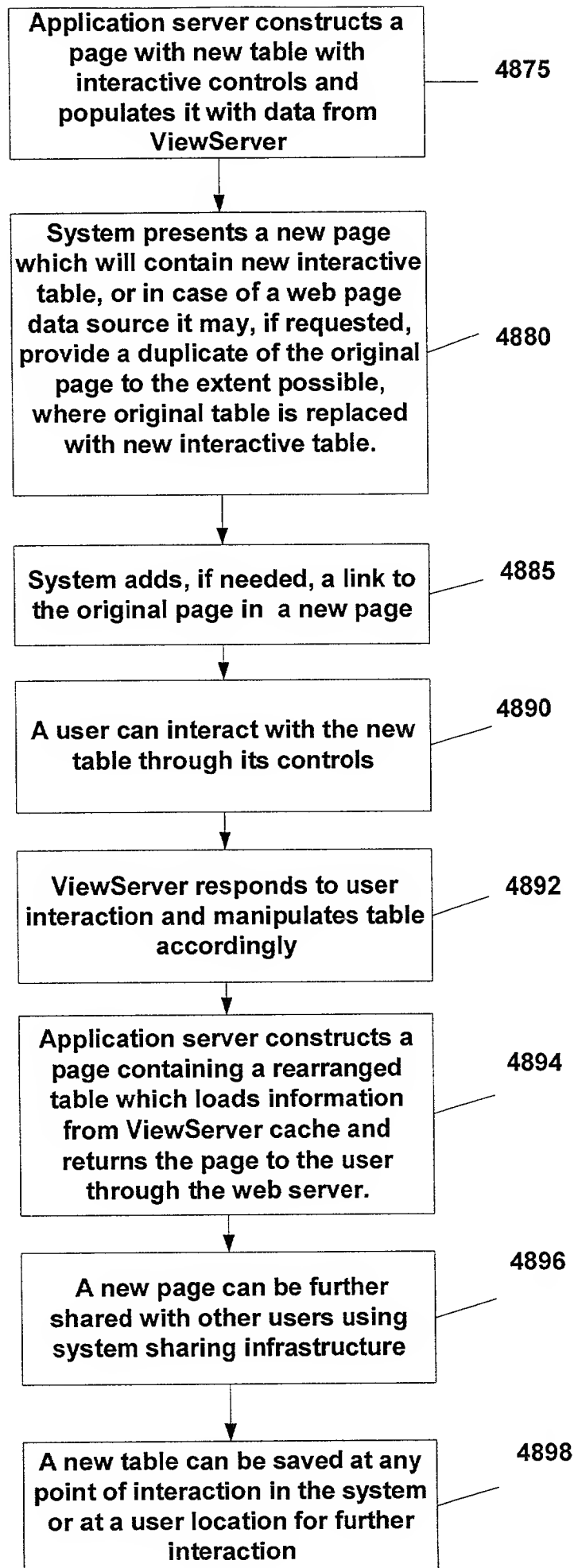
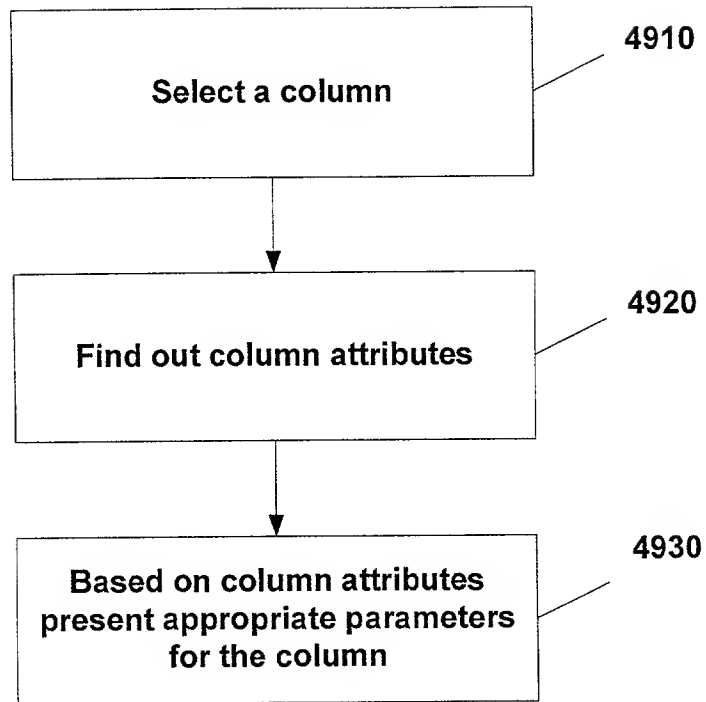


FIG. 48-2



**FIG. 49**



FIG. 50

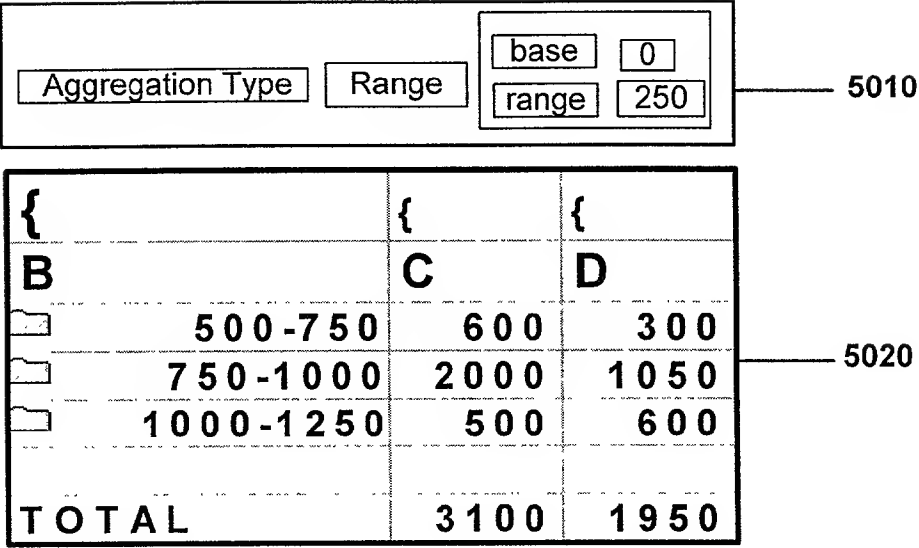
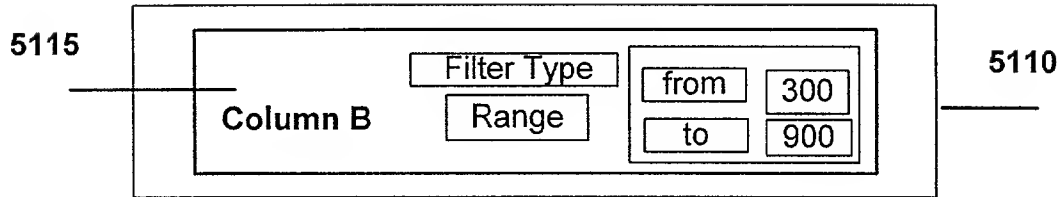
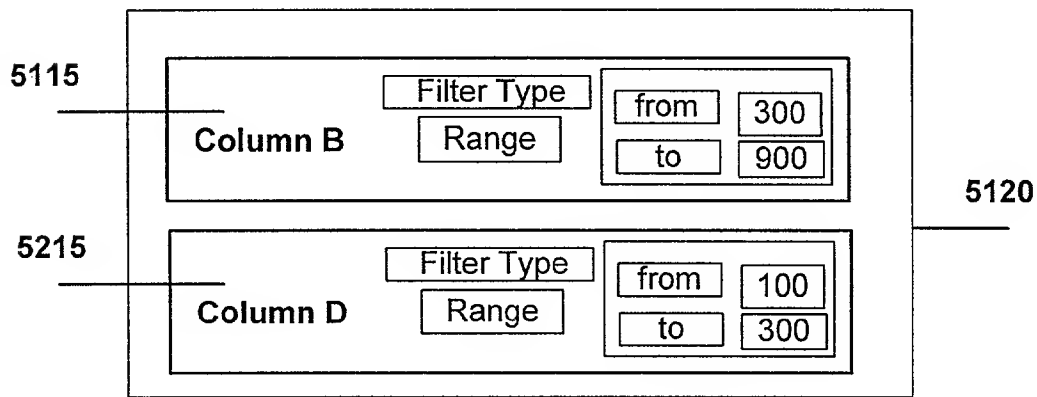


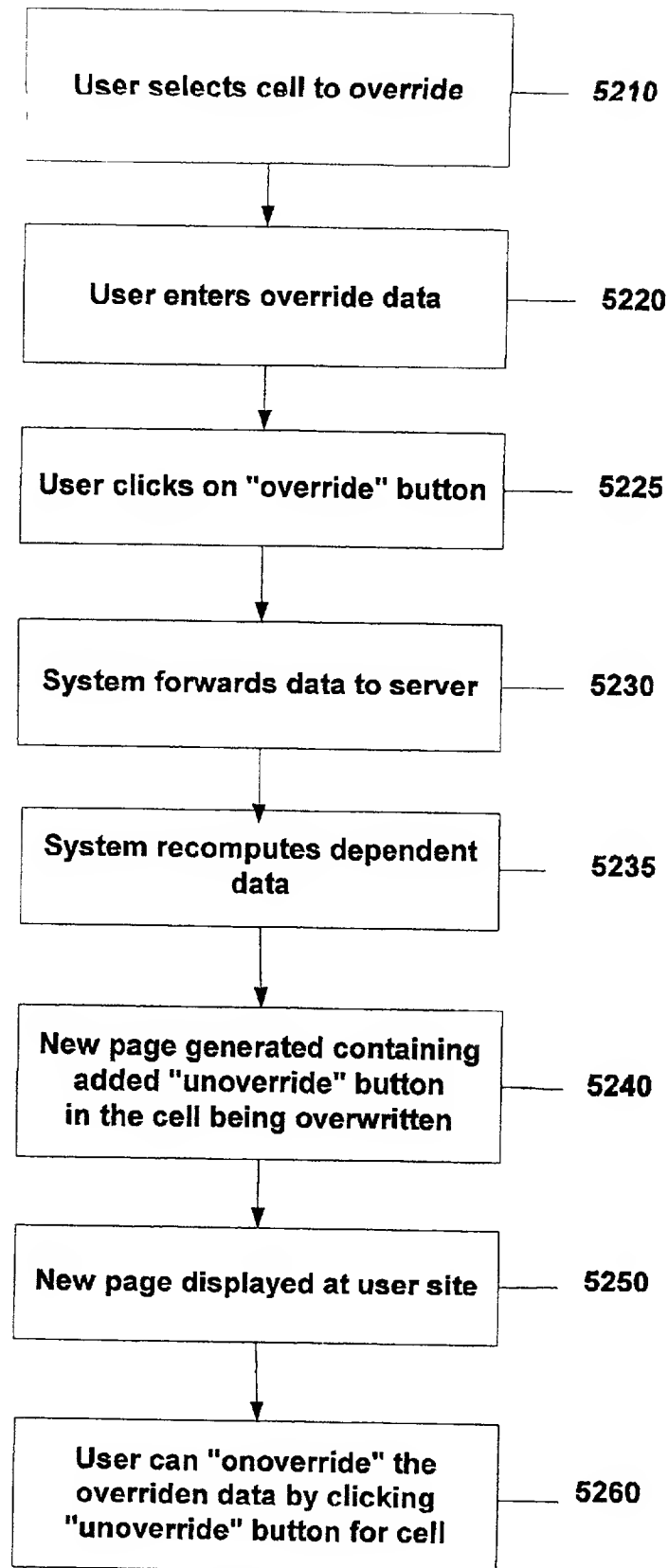
FIG. 50



**FIG. 51A**



**FIG. 51B**



**FIG. 52**